## SMITHSONIAN MATHEMATICAL TABLES

## HYPERBOLIC FUNCTIONS

PREPARED BY

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#### ADVERTISEMENT.

Among the early publications of the Smithsonian Institution was a very important volume of meteorological tables by Dr. Arnold Guyot. They were so widely used by geographers and physicists as well as by meteorologists that when the fourth edition was exhausted it was decided to recast the entire work and publish three separate volumes, Meteorological Tables, Geographical Tables, and Physical Tables, each of which have now passed through several editions.

In the application of the data of these volumes to the study of natural phenomena certain mathematical tables beside those included in ordinary tables of logarithms are urgently needed in order to save recurrent computation on the part of observers and investigators. It was therefore decided to publish the present volume of Mathematical Tables, on Hyperbolic Func-

tions.

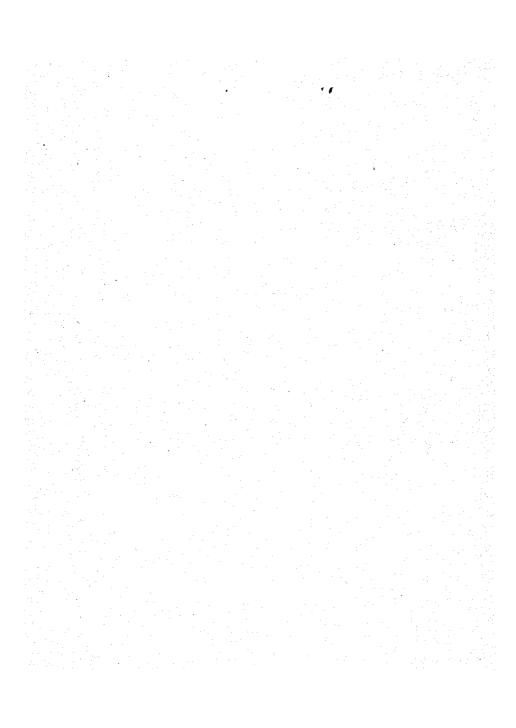
Hyperbolic Functions are extremely useful in every branch of pure physics and in the applications of physics whether to observational and experimental sciences or to technology. Thus whenever an entity (such as light, velocity, electricity, or radioactivity) is subject to gradual extinction or absorption, the decay is represented by some form of Hyperbolic Functions. Mercator's projection is likewise computed by Hyperbolic Functions. Whenever mechanical strains are regarded as great enough to be measured they are most simply expressed in terms of Hyperbolic Functions. Hence geological deformations invariably lead to such expression, and it is for that reason that Messrs. Becker and Van Orstrand, who are in charge of the physical work of the United States Geological Survey, have been led to prepare this volume.

CHARLES D. WALCOTT, Secretary.

Washington, D. C., April, 1909.

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#### DEFINITIONS AND FORMULAS.

The hyperbolic functions are named the hyperbolic sine, cosine, tangent, cotangent, secant, and cosecant from their close analogy to the circular functions, the tangent being the ratio of the hyperbolic sine to the cosine and the other three functions being reciprocals of these, as in circular trigonometry. They are usually denoted by adding h to the symbols of the circular functions, as  $\cosh u$  for the hyperbolic cosine of u,  $\sinh u$  for the hyperbolic sine of u, etc.<sup>1</sup>

Historically speaking, the hyperbolic functions were evolved from studies of the hyperbola. They might have been developed from the geometry of the ellipse or the catenary or that of other curves. These functions, however, may be considered independently of any geometrical interpretation and can be derived from very fundamental functional theorems.

At least two methods have been devised of defining circular and hyperbolic functions analytically. One of these is due to Mr. Yvon Villarceau, and is so extremely brief that it can be given here in a somewhat modified form.

It has long been known that

$$e^{2mi\pi} = 1$$
;  $e^{u} + 2mi\pi = e^{u}$ ;  $e^{(u + 2m\pi)i} = e^{iu}$ .

The second of these equations has a single imaginary period,  $2i\pi$ , and the third a single real period,  $2\pi$ . Hence every exponential  $e^u$  in which u is real has a single imaginary period,  $2i\pi$ , and every exponential with the same base, but with an imaginary exponent, has a real period,  $2\pi$ . Now, all real purely circular functions may be expressed in terms of constants and exponentials with purely imaginary exponents, and all real hyperbolic functions may be expressed in terms of constants and exponentials with exclusively real exponents.

Hence hyperbolic functions may be defined as the singly periodic exponential functions with real exponents. The circular functions are then the singly periodic exponential functions with imaginary exponents.

It remains to be considered how, from this point of view, the hyperbolic functions of complex variables are to be regarded. The question almost answers itself; for

$$e^{x+iy}=e^x$$
.  $e^{iy}$ ,

<sup>&</sup>lt;sup>1</sup>More compendious and convenient, but less usual, is the notation employed by B. de Saint-Venant, sih u, coh u, tah u.

<sup>&</sup>lt;sup>2</sup> Comptes Rendus. Paris, vol. 83, 1876, p. 594.

which is evidently the product of two functions—one circular, the other hyperbolic. Such functions have a real period and an imaginary one, but since they are single-valued they are not elliptic functions.

The circular and hyperbolic functions being defined as above, it is merely as a matter of convenience that a few of the simpler combinations of exponentials receive special names, as sine, cosine, etc.

The other analytical method of generalizing the two classes of functions is due to Edward Lucas, and is too long to be given here in full, but the method may be indicated. If a and b are the two roots of the equation

$$x^2 - Px + Q = 0,$$

where P and Q are positive or negative whole numbers, then two functions may be defined as follows:

$$U_n \equiv \frac{a^n - b^n}{a - b}; \ V_n \equiv a^n + b^n,$$

and these functions are related by the equation

$$U_{2n}=U_n\ V_n.$$

Lucas develops and studies these functions, limiting n at first to whole positive numbers. He finds that all the theorems resulting from this study are converted into those of ordinary trigonometry when U is replaced by  $2 \sin n$  and V by  $2 \cos n$ . He infers that between the limits I and minus I, n may be replaced by any real value, and shows that the theorems dealing with U and V when translated into trigonometric formulas on this assumption can be verified. By substituting for n an imaginary argument, the hyperbolic functions also are found to be comprehended in the general functions U and V.

Both the circular and hyperbolic functions may further be regarded as integrals of the equation

$$\frac{d}{dx}\log\frac{d^2y}{dx^2} = \frac{d}{dx}\log y, \text{ or } \frac{d^2y}{dx^2} = cy.$$

If  $c = a^2$ , this gives

$$\frac{y}{a} = Ae^x + Be^{-x},$$

where A and B are arbitrary constants; so that the integral expression includes  $\sinh x$ ,  $\cosh x$ , and the sum or difference of these functions.

If 
$$c = -b^2$$
.

$$\frac{y}{b} = A_1 \cos x + B_1 \sin x.$$

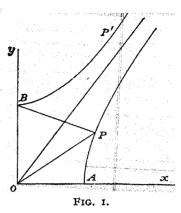
<sup>&</sup>lt;sup>1</sup>Am. Jour. of Math., vol. 1, 1878, p. 184.

The hyperbolic functions may also be defined geometrically with reference to any hyperbola.

Let OA = a, OB = b be the semi-axes of the hyperbola AP, and its conjugate BP'referred to the rectangular axes ox and oy. The argument or independent variable uand its functions are then given by: <sup>1</sup>

$$\frac{\text{sector } OAP}{\Delta OAB} \quad \text{sinh } u = \frac{\Delta OAP}{\Delta OAB},$$

$$\cosh u \quad \frac{\Delta OPB}{\Delta OAB}, \text{ etc.}$$



The areas of the triangles OAB, OAP, and OPB are respectively  $\frac{1}{2}$  ab,  $\frac{1}{2}$  ay and  $\frac{1}{2}$  bx, and the area of the sector OAP is found from the equation of the hyperbola,

$$x^2 \qquad \frac{1}{b^2} = 1,$$

to be

$$S = \frac{ab}{2}\log\left(\frac{x}{a} + \frac{y}{b}\right).$$

Hence, in accordance with the above definitions,

$$u = \frac{2S}{ab} = \log\left(\frac{x}{a} + \frac{y}{b}\right),$$

$$\sinh u = \frac{y}{a} = \frac{1}{2}\left(e^{u} - e^{-u}\right),$$

$$\cosh u = \frac{\alpha}{a} = \frac{1}{2}\left(e^{u} + e^{-u}\right).$$

Similarly the argument and functions of circular trigonometry are:

radius'
$$\sin \theta = \frac{y}{r} = -\frac{1}{2} i \left( e^{i\theta} - e^{-i\theta} \right),$$

$$\cos \theta = \frac{x}{r} = \frac{1}{2} \left( e^{i\theta} + e^{-i\theta} \right).$$

A comparison of the preceding equations shows that there exist between the two sets of arguments and functions many interesting analogies and relations. The arguments are in each case the ratio of two areas, although the argument of the circular functions may also be defined as a ratio of two lines;

<sup>&</sup>lt;sup>1</sup> For definitions which are independent of the position of the sectorial areas see Prof. James McMahon's "Hyperbolic Functions" and a paper "On the Introduction of the Notion of Hyperbolic Functions," by Prof. M. W. Haskell, Bull. Am. Math. Soc., vol. 1, 1894-95.

the hyperbolic functions stand in the same relation to the *equilateral* hyperbola as the circular functions do to the circle; each set of functions may be defined analytically as a particular branch of the theory of the exponential function, and it is possible to pass from the one to the other by means of the imaginary i  $\sqrt{\phantom{a}}$  For example,

$$\sinh u = -i \sin iu$$
,  
 $\cosh u = \cos iu$ ,  
 $\tanh u = -i \tan iu$ .

Furthermore, every rational function of the hyperbolic functions and their inverts can be integrated by the help of corresponding known integrals of circular functions. Thus, to find  $\int \operatorname{sech} u \, du$  from

$$\int \sec u \, du = \frac{1}{2} \log \frac{1 + \sin u}{1 - \sin u} = \log \frac{1 + \tan \frac{u}{2}}{1 - \tan \frac{u}{2}}$$

substitute iu for u and reduce to the form

$$\int \operatorname{sech} u \, du = \frac{1}{i} \log \frac{1 + i \tanh \frac{u}{2}}{1 - i \tanh \frac{u}{2}}$$

If in this equation  $\tanh \frac{u}{2}$  is replaced by y, the second member coincides in form with the expression for  $z \tan^{-1} y$  given below.

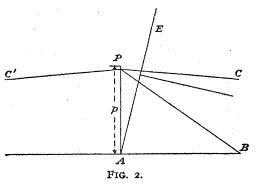
Hence

$$\int \operatorname{sech} u \, du = 2 \tan^{-1}(\tanh \frac{u}{2}) = g d \, u.$$

Similarly, when a differential is encountered the integral of which is not to be found in this collection, it is expedient to deduce the corresponding

expression in cyclic functions by substitution of ix for x, etc., and then to make a search for its integral.

Most interesting is the relation existing between the formulæ of spherical trigonometry and the formulæ of Lobachevsky's imaginary geometry, hyperbolic geometry, or pseudo - spherical geometry, as it is sometimes called. Lobachevsky defines the



angle CPA as the angle of parallelism, the line PC being the limiting position of PB when the distance AB is infinite. In this geometry two parallels, PC

and PC', may be drawn from a point P to a line AB; the sum of the angles of a triangle is less than two right angles, and the angle of parallelism  $\Pi$  (p) is dependent upon the perpendicular distance p of the point P from the line AB. If now any line passing through A, such as AE, is extended until the perpendicular erected at its middle point is parallel to AB, the locus of the points E is a boundary curve, and the revolution of this curve about AB or one of its parallels develops a boundary surface. It is upon this surface of constant negative curvature that Lobachevsky imagines a triangle of sides a, b, c and angles A, B, C to be drawn. He establishes as fundamental relations between the sides and angles of this triangle a

$$\sin A \tan \Pi(a) = \sin B \tan \Pi(b) = \sin C \tan \Pi(c),$$

$$\sin \Pi(b) \sin \Pi(c) = \sin \Pi(a) - \cos \Pi(b) \cos \Pi(c) \sin \Pi(a) \cos A,$$

$$\sin \Pi(a) \cos A = -\cos B \cos C \sin \Pi(a) + \sin B \sin C,$$

and also proves that

$$\sin \Pi(u) = (\cos iu)^{-1} = (\cosh u)^{-1},$$
  
 $\tan \Pi(u) = i (\sin iu)^{-1} = (\sinh u)^{-1},$   
 $\cos \Pi(u) = -i \tan iu = \tanh u.$ 

Hence the preceding equations may be written

$$\frac{\sin A}{\sinh a} = \frac{\sin B}{\sinh b} = \frac{\sin C}{\sinh c},$$

$$\cosh a = \cosh b \cosh c - \sinh b \sinh c \cos A,$$

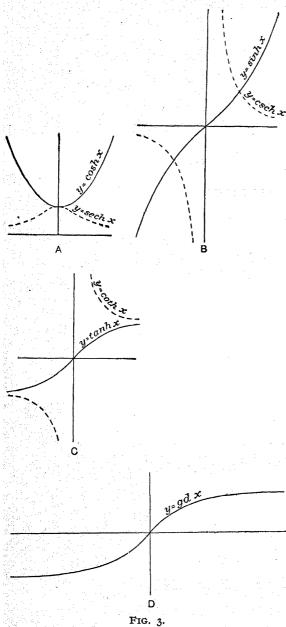
$$\cos A = -\cos B \cos C + \sin B \sin C \cosh a.$$

These formulas are, in fact, precisely those of spherical trigonometry, in which the real sides a, b, c have been replaced by the imaginaries ia, ib, ic. If the triangle on the boundary surface is infinitesimal, the above equations reduce to the well-known relations between the sides and angles of a triangle on the Euclidean plane. The theorems of non-Euclidean geometry may not therefore be inconsistent with experience, for the largest triangle which we can measure is infinitesimal in comparison with a triangle on the boundary surface. Lobachevsky pointed out that a triangle on a boundary surface would correspond to a triangle connecting three stars in distant parts of the universe, and that the postulates of his geometry, involving as they do the question of the curvature of space, would be capable of experimental proof if the parallaxes of distant stars could be measured with sufficient accuracy.

Lastly, there is an important relation between the numerical values of the circular and hyperbolic functions. If the argument u assumes successive values between 0 and  $+\infty$ ,  $\sinh u$  assumes successive values between 0 and  $+\infty$  just as  $\tan a$  does when a varies from 0 to 90°;  $\cosh u$  assumes values between 1 and  $+\infty$  like  $\sec \beta$ , and  $\tanh u$  assumes values between 0 and 1

<sup>&</sup>lt;sup>1</sup>H. P. Manning's Non-Euclidean Geometry, p. 60.

in the same way as  $\sin \gamma$ . The variation of the hyperbolic functions throughout the entire plane and their similarity to the circular functions between the



limits o° and 180° is shown in the diagram. Since each of the functions is singly periodic, there must be a single value of a,  $\beta$ ,  $\gamma$  corresponding to a particular value of u, such that

 $\sinh u = \tan \alpha$ ,  $\cosh u = \sec \beta$ ,  $\tanh u = \sin \gamma$ .

It will be found by substituting in the trigonometric formulæ that  $\alpha = \beta = \gamma$ =  $\phi$ , and the required relations are therefore

> $\cosh u = \sec \phi,$   $\sinh u = \tan \phi,$  $\tanh u = \sin \phi.$

The angle  $\phi$  which renders it possible to evaluate the hyperbolic functions by means of the circular functions is of great importance in pure and applied mathematics. Some of its properties and applications will be considered in the section on geometrical illustrations. It is called gudermannian u and is written

$$\phi = gd u$$
.

The following list of formulæ involving the hyperbolic functions might be greatly extended, but it includes the most useful relations.<sup>1</sup>

<sup>&</sup>lt;sup>1</sup>Taken with additions from Prof. B. O. Peirce's Short Table of Integrals, and Prof. McMahon's Hyperbolic Functions.

# A.—RELATIONS BETWEEN HYPERBOLIC AND CIRCULAR FUNCTIONS. 1. $\sinh u = -i \sin iu = \tan g d u$ . 2. $\cosh u = \cos iu = \sec g d u$ .

 $2. \cos u = \cos u = \sec y a u.$ 

3.  $\tanh u = -i \tan iu = \sin gd u$ .

4.  $tanh \frac{1}{2}u = tan \frac{1}{2}gdu$ .

5.  $e^{u} = (1 + \sin g d u) + \cos g d u,$ =  $[1 - \cos(\frac{1}{2}\pi + g d u)] + \sin(\frac{1}{2}\pi + g d u),$ =  $\tan(\frac{1}{4}\pi + \frac{1}{2}g d u).$ 

6.  $\sinh iu = i \sin u$ .

7.  $\cosh iu = \cos u$ .

8.  $\tanh iu = i \tan u$ .

9.  $\sinh (u \pm iv) = \pm i \sin (v \mp iu),$ =  $\sinh u \cos v \pm i \cosh u \sin v.$ 

10.  $\cosh(u \pm iv) = \cos(v \mp iu)$ , =  $\cosh u \cos v \pm i \sinh u \sin v$ .

11.  $\cosh(mi\pi) = \cos m\pi$ . (*m* is an integer.)

12.  $\sinh (2m+1) \frac{1}{2} i\pi = i \sin (2m+1) \frac{1}{2} \pi$ . (m is an integer.)

#### B.—RELATIONS AMONG THE HYPERBOLIC FUNCTIONS.

13.  $\sinh u = \frac{1}{2} (e^{u} - e^{-u}) = -\sinh (-u) = (\operatorname{csch} u)^{-1}$   $= 2 \tanh \frac{1}{2} u \div (\mathbf{1} - \tanh^{2} \frac{1}{2} u) = \tanh u \div (\mathbf{1} - \tanh^{2} u)^{\frac{1}{2}}.$ 14.  $\cosh u = \frac{1}{2} (e^{u} + e^{-u}) = \cosh (-u) = (\operatorname{sech} u)^{-1},$  $= (\mathbf{1} + \tanh^{2} \frac{1}{2} u) \div (\mathbf{1} - \tanh^{2} \frac{1}{2} u) = \mathbf{1} \div (\mathbf{1} - \tanh^{2} u)^{\frac{1}{2}}.$ 

15.  $\tanh u = (e^u - e^{-u}) \div (e^u + e^{-u}) = -\tanh (-u),$ =  $(\coth u)^{-1} = \sinh u \div \cosh u = (1 - \operatorname{sech}^2 u)^{\frac{1}{2}}.$ 

16.  $\operatorname{sech} u = \operatorname{sech} (-u) = (\mathbf{1} - \tanh^2 u)^{\frac{1}{2}}.$ 

17.  $\operatorname{csch} u = -\operatorname{csch} (-u) = (\coth^2 u - 1)^{\frac{1}{2}}$ .

18.  $\coth u = -\coth (-u) = (\operatorname{csch}^2 u + 1)^{\frac{1}{2}}$ .

19.  $\cosh^2 u - \sinh^2 u = 1$ .

20.  $\sinh \frac{1}{2} u = \sqrt{\frac{1}{2} (\cosh u - 1)}$ .

21.  $\cosh \frac{1}{2}u = \sqrt{\frac{1}{2}(\cosh u + 1)}$ .

22.  $\tanh \frac{1}{2}u = (\cosh u - 1) \div \sinh u$ ,

 $= \sinh u \div (\mathbf{1} + \cosh u) = \sqrt{(\cosh u - \mathbf{1})} \div (\cosh u + \mathbf{1})$ 

23.  $\sinh 2u = 2 \sinh u \cosh u = 2 \tanh u \div (1 - \tanh^2 u)$ .

24.  $\cosh 2u = \cosh^2 u + \sinh^2 u = 2 \cosh^2 u - 1$ , =  $1 + 2 \sinh^2 u = (1 + \tanh^2 u) \div (1 - \tanh^2 u)$ .

25.  $\tanh 2u = 2 \tanh u \div (1 + \tanh^2 u)$ .

26.  $\sinh 3u = 3 \sinh u + 4 \sinh^3 u$ .

27.  $\cosh 3u = 4 \cosh^3 u - 3 \cosh u$ .

28.  $\tanh 3u = (3 \tanh u + \tanh^3 u) \div (1 + 3 \tanh^2 u)$ .

29. 
$$\sinh nu =$$

$$n \cosh^{n-1} u \sinh u + \frac{(n)(n-1)(n-2)}{6} \cosh^{n-3} u \sinh^3 u + \dots$$

30. 
$$\cosh nu = \cosh^n u + \frac{n(n-1)}{2} \cosh^{n-2} u \sinh^2 u + \dots$$

- 31.  $\sinh u + \sinh v = 2 \sinh \frac{1}{2} (u + v) \cosh \frac{1}{2} (u v)$ .
- 32.  $\sinh u \sinh v = 2 \cosh \frac{1}{2} (u + v) \sinh \frac{1}{2} (u v)$ .
- 33.  $\cosh u + \cosh v = 2 \cosh \frac{1}{2} (u + v) \cosh \frac{1}{2} (u v)$ .
- 34.  $\cosh u \cosh v = 2 \sinh \frac{1}{2} (u + v) \sinh \frac{1}{2} (u v)$ .
- 35.  $\sinh u + \cosh u = (1 + \tanh \frac{1}{2}u) \div (1 \tanh \frac{1}{2}u)$ .
- 36.  $(\sinh u + \cosh u)^n = \cosh nu + \sinh nu$ .
- 37.  $\tanh u + \tanh v = \sinh (u + v) \div \cosh u \cosh v$ .
- 38.  $\tanh u \tanh v = \sinh (u v) \div \cosh u \cosh v$ .
- 39.  $\coth u + \coth v = \sinh (u + v) \div \sinh u \sinh v$ .
- 40.  $\coth u \coth v = -\sinh (u v) \div \sinh u \sinh v$ .
- 41.  $\sinh (u \pm v) = \sinh u \cosh v \pm \cosh u \sinh v$ .
- 42.  $\cosh (u \pm v) = \cosh u \cosh v \pm \sinh u \sinh v$ .
- 43.  $\tanh (u \pm v) = (\tanh u \pm \tanh v) \div (1 \pm \tanh u \tanh v)$ .
- 44.  $\coth (u \pm v) = (\coth u \coth v \pm 1) \div (\coth v \pm \coth u)$ .
- 45.  $\sinh (u+v) + \sinh (u-v) = 2 \sinh u \cosh v$ .
- 46.  $\sinh (u+v) \sinh (u-v) = 2 \cosh u \sinh v$ .
- 47.  $\cosh(u+v) + \cosh(u-v) = 2 \cosh u \cosh v$ .
- 48.  $\cosh (u + v) \cosh (u v) = 2 \sinh u \sinh v$ .
- 49.  $\tanh \frac{1}{2}(u+v) = (\sinh u + \sinh v) \div (\cosh u + \cosh v)$ .
- 50.  $\tanh \frac{1}{2} (u v) = (\sinh u \sinh v) + (\cosh u + \cosh v)$ .
- 51.  $\coth \frac{1}{2} (u+v) = (\sinh u \sinh v) \div (\cosh u \cosh v)$ .
- 52.  $\coth \frac{1}{2}(u-v) = (\sinh u + \sinh v) \div (\cosh u \cosh v)$ .

53. 
$$\frac{\tanh u + \tanh v}{\tanh u - \tanh v} = \frac{\sinh (u + v)}{\sinh (u - v)}$$

54. 
$$\frac{\coth u + \coth v}{\coth u - \coth v} = -\frac{\sinh (u + v)}{\sinh (u - v)}$$

55. 
$$\sinh(u+v) + \cosh(u+v) = (\cosh u + \sinh u) (\cosh v + \sinh v)$$

56. 
$$\sinh (u + v) \sinh (u - v) = \sinh^2 u - \sinh^2 v$$
,  
=  $\cosh^2 u - \cosh^2 v$ .

57. 
$$\cosh (u + v) \cosh (u - v) = \cosh^2 u + \sinh^2 v$$
,  
=  $\sinh^2 u + \cosh^2 v$ .

- 58.  $\sinh (mi\pi) = 0$ . (m is an integer).
- 59.  $\cosh (mi\pi) = (-1)^m$ .
- 60.  $\tanh(mi\pi) = 0$ .
- 61.  $\sinh (u + mi\pi) = (-1)^m \sinh u$ .
- 62.  $\cosh (u + mi\pi) = (-1)^m \cosh u$ .
- 63.  $\sinh (2 m + 1) \frac{1}{2} i \pi = \pm i$ .

64.  $\cosh (2 m + 1) \frac{1}{2} i \pi = 0$ .

65. 
$$\sinh\left(\frac{i\pi}{2} \pm u\right) = i\cosh u$$
.

66. 
$$\cosh\left(\frac{i\pi}{2} \pm u\right) = \pm i \sinh u$$
.

67. 
$$\tanh (u + i\pi) = \tanh u$$
.

#### C.—Inverse Hyperbolic Functions.

68. 
$$\sinh^{-1} u = \log (u + \sqrt{u^2 + 1}) = \cosh^{-1} \sqrt{u^2 + 1} = \int \frac{du}{(u^2 + 1)^{\frac{1}{2}}}$$

69. 
$$\cosh^{-1} u = \log (u + \sqrt{u^2 - 1}) = \sinh^{-1} \sqrt{u^2 - 1} = \int \frac{du}{(u^2 - 1)^{\frac{1}{2}}}$$

70. 
$$\tanh^{-1} u = \frac{1}{2} \log (1 + u) - \frac{1}{2} \log (1 - u) = \int \frac{du}{1 - u^2}$$

71. 
$$\coth^{-1} u = \frac{1}{2} \log (1 + u) - \frac{1}{2} \log (u - 1) = \int \frac{du}{1 - u^2} = \tanh^{-1} \frac{1}{u}$$

72. 
$$\operatorname{sech}^{-1} u = \log \left( \frac{1}{u} + \sqrt{\frac{1}{u^2 - 1}} \right) = -\int \frac{du}{u(1 - u^2)^{\frac{1}{2}}} = \cosh^{-1} \frac{1}{u}.$$

73. 
$$\operatorname{csch}^{-1} u = \log \left( \frac{1}{u} + \sqrt{\frac{1}{u^2} + 1} \right) = -\int \frac{du}{u(u^2 + 1)^{\frac{1}{2}}} = \sinh^{-1} \frac{1}{u}$$

74. 
$$\sin^{-1} u = -i \sinh^{-1} iu = -i \log (iu + 1/1 - u^2)$$

75. 
$$\cos^{-1} u = -i \cosh^{-1} u = -i \log (u + i \sqrt{1 - u^2})$$
.

76. 
$$\tan^{-1} u = -i \tanh^{-1} iu = \frac{1}{2i} \log(1 + iu) - \frac{1}{2i} \log(1 - iu)$$
.

77. 
$$\cot^{-1} u = i \coth^{-1} iu = \frac{1}{2i} \log (iu - 1) - \frac{1}{2i} \log (iu + 1)$$
.

78. 
$$\sin^{-1} iu = i \sinh^{-1} u = i \log (u + \sqrt{1 + u^2})$$

79. 
$$\cos^{-1} iu = -i \cosh^{-1} iu = \frac{u}{2} - i \log (u + \sqrt{1 + u^2}).$$

80. 
$$\tan^{-1} iu = i \tanh^{-1} u = \frac{i}{2} \log (1 + u) - \frac{i}{2} \log (1 - u)$$

81. 
$$\cot^{-1} iu = -i \coth^{-1} u = -\frac{i}{2} \log (u+1) + \frac{i}{2} \log (u-1)$$
.

82. 
$$\cosh^{-1}\frac{1}{2}\left(u+\frac{1}{u}\right) = \sinh^{-1}\frac{1}{2}\left(u-\frac{1}{u}\right) = \tanh^{-1}\frac{u^2-1}{u^2+1}$$

$$= 2 \tanh^{-1} \frac{u-1}{u+1} = \log u.$$

83. 
$$tanh^{-1} tan u = \frac{1}{2} gd 2 u$$
.

84. 
$$\tan^{-1} \tanh u = \frac{1}{2} g d^{-1} 2 u$$
.

85. 
$$\cosh^{-1}\csc 2u = -\sinh^{-1}\cot 2u = -\tanh^{-1}\cos 2u = \log \tan u$$
.

86. 
$$\tanh^{-1} \tan^2 \left( \frac{1}{4} \pi + \frac{1}{2} u \right) = \frac{1}{2} \log \csc u$$
.

87. 
$$\tanh^{-1} \tan^2 \frac{1}{2} u = \frac{1}{2} \log \sec u$$
.

88. 
$$\cosh^{-1} u \pm \cosh^{-1} v = \cosh^{-1} \left[ uv \pm \sqrt{(u^2 - 1)(v^2 - 1)} \right]$$

89. 
$$\sinh^{-1} u \pm \sinh^{-1} v = \sinh^{-1} \left[ u \sqrt{1 + v^2} \pm v \sqrt{1 + u^2} \right]$$

#### D.—SERIES.

90. 
$$e^u = 1 + u + \frac{u^2}{2!} + \frac{u^3}{3!} + \frac{u^4}{4!} + \dots$$
  $(u^2 < \infty,)$ 

91. 
$$\log u = (u-1) - \frac{1}{2}(u-1)^2 + \frac{1}{3}(u-1)^3 - \dots$$
 (2>u>0.)

92. 
$$\log u = \frac{u-1}{u} + \frac{1}{2} \left( \frac{u-1}{u} \right)^2 + \frac{1}{3} \left( \frac{u-1}{u} \right)^3 + \dots \quad (u > \frac{1}{2}.)$$

93. 
$$\log u = 2 \left[ \frac{u-1}{u+1} + \frac{1}{3} \left( \frac{u-1}{u+1} \right)^3 + \frac{1}{5} \left( \frac{u-1}{u+1} \right)^5 + \dots \right] (u > 0.)$$

94. 
$$\log(1+u) = u - \frac{1}{2}u^2 + \frac{1}{3}u^3 - \frac{1}{4}u^4 + \dots$$
 ( $u^2 < 1$ .)

95. 
$$\log\left(\frac{1+u}{1-u}\right) = 2\left[u + \frac{1}{3} u^3 + \frac{1}{5} u^5 + \frac{1}{7} u^7 + \ldots\right] \quad (u^2 < 1.)$$

96. 
$$\log\left(\frac{u+1}{u-1}\right) = 2\left[\frac{1}{u} + \frac{1}{3}\left(\frac{1}{u}\right)^3 + \frac{1}{5}\left(\frac{1}{u}\right)^5 + \ldots\right] \quad (u^2 > 1.)$$

97. 
$$\sinh u = u + \frac{u}{2!} + \frac{u^5}{5!} + \frac{u^7}{7!} + \dots$$
  $(u^2 < \infty.)$ 

$$= u \left( 1 + \frac{u^2}{\pi^2} \right) \left( 1 + \frac{u^2}{2^2 \pi^2} \right) \left( 1 + \frac{u^2}{3^2 \pi^2} \right) \dots \qquad (u^2 < \infty.)$$

98. 
$$\cosh u = 1 + \frac{u^2}{2!} + \frac{u^4}{4!} + \frac{u^6}{6!} + \dots$$
  $(u^2 < \infty.)$ 

$$= \left(1 + \frac{4 u^2}{\pi^2}\right) \left(1 + \frac{4 u^2}{3^2 \pi^2}\right) \left(1 + \frac{4 u^2}{5^2 \pi^2}\right) \dots \qquad (u^2 < \infty.)$$

99. 
$$\tanh u = u - \frac{1}{3} u^3 + \frac{2}{15} u^5 - \frac{17}{315} u^7 + \dots$$
  $(u^2 < \frac{1}{4} \pi^2.)$ 

100. 
$$u \coth u = 1 + \frac{1}{3} u^2 - \frac{1}{45} u^4 + \frac{2}{945} u^6 - \dots$$
  $(u^2 < \pi^2.)$ 

101. sech 
$$u = I - \frac{I}{2}u^2 + \frac{5}{24}u^4 - \frac{6I}{720}u^6 + \dots$$
  $(u^2 < \frac{1}{4}\pi^2.)$ 

102. 
$$u \operatorname{csch} u = 1 - \frac{1}{6} u^2 + \frac{7}{360} u^4 - \frac{31}{15120} u^6 + \dots$$
  $(u^2 < \pi^2)$ 

103. 
$$gd u = \phi = u - \frac{1}{6}u^{5} + \frac{1}{24}u^{5} - \frac{61}{5040}u^{7} + \dots$$
 (u small.)

$$= \frac{\pi}{2} - \operatorname{sech} u - \frac{1}{2} \frac{\operatorname{sech}^{8} u}{3} - \frac{1}{2} \frac{3}{4} \frac{\operatorname{sech}^{6} u}{5} - \dots \quad (u \text{ large.})$$

104. 
$$u = gd^{-1}\phi = \phi + \frac{1}{6}\phi^8 + \frac{1}{24}\phi^5 + \frac{61}{5040}\phi^7 + \dots \qquad \left(\phi < \frac{\pi}{2}\right)$$
  
105.  $\sinh^{-1}u = u = \frac{1}{2}\frac{u^8}{3} + \frac{1}{2}\frac{3}{4}\frac{u^5}{5} - \frac{1}{2}\frac{3}{4}\frac{5}{6}\frac{u^7}{7} + \dots + (u^2 < 1.)$ 

roj. 
$$\sinh^{-1} u = u = \frac{1}{2} \frac{1}{3} + \frac{1}{2} \frac{1}{4} \frac{1}{5} \frac{1}{2} \frac{1}{4} \frac{1}{6} \frac{1}{7} + \cdots$$

$$= \log_2 u + \frac{1}{2} \frac{1}{2u^2} - \frac{1}{2} \frac{3}{4} \frac{1}{4u^4} + \frac{1}{2} \frac{3}{4} \frac{5}{6} \frac{1}{6u^6} - \dots (u^2 > 1.)$$

106. 
$$\cosh^{-1} u = \log 2 u - \frac{1}{2} \frac{1}{2 u^2} - \frac{1}{2} \frac{3}{4} \frac{1}{4 u^4} - \frac{1}{2} \frac{3}{4} \frac{5}{6 6} \frac{1}{u^6} - \dots$$
  $(u^2 > 1.)$ 

107. 
$$\tanh^{-1} u = u + \frac{1}{3}u^3 + \frac{1}{5}u^5 + \frac{1}{7}u^7 + \dots$$
  $(u^2 < 1.)$ 

108. 
$$\coth^{-1} u = \tanh^{-1} \frac{1}{u} = \frac{1}{u} + \frac{1}{3u^3} + \frac{1}{5u^5} + \frac{1}{7u^7} + \dots$$
 ( $u^2 > 1$ .)

109. 
$$\operatorname{sech}^{-1} u = \cosh^{-1} \frac{1}{u} = \log \frac{2}{u} - \frac{1}{2} \frac{u^2}{2} - \frac{1}{24} \frac{3}{44} \frac{u^4}{2466} - \frac{1}{66} \frac{3}{44} \frac{1}{2466} \frac{5}{66} \frac{u^2}{4666} = \frac{1}{4466} \frac{1}{4$$

iro, 
$$\operatorname{csch}^{-1} u = \sinh^{-1} \frac{1}{u} = \frac{1}{u} - \frac{1}{2} \frac{1}{3u^8} + \frac{1}{2} \frac{3}{4} \frac{1}{5u^5} - \frac{1}{2} \frac{3}{4} \frac{5}{6} \frac{1}{7u^7}$$

$$= \log \frac{2}{u} + \frac{1}{2} \frac{u^2}{2} - \frac{1}{2} \frac{3}{4} \frac{u^4}{4} + \frac{1}{2} \frac{3}{4} \frac{5}{6} \frac{u^6}{6} - \dots \cdot (u^2 < 1.)$$

#### E.—DERIVATIVES.

III. 
$$\frac{d e^u}{du} = e^u$$
.

112. 
$$d \frac{\log_e u}{du} = \frac{1}{u}.$$

113. 
$$\frac{d a^{v}}{du} = a^{v} \cdot \frac{dv}{du} \cdot \log_{e} a.$$

114. 
$$\frac{du^u}{du} = u^u (1 + \log_e u)$$
.

$$\lim_{n \to \infty} \frac{d \sinh u}{n} = \cosh u.$$

116. 
$$\frac{d \cosh u}{du} = \sinh u$$
.

117. 
$$\frac{d \tanh u}{du} = \operatorname{sech}^2 u.$$

$$118. \frac{u \coth u}{du} = - \operatorname{csch}^2 u.$$

119. 
$$\frac{d \operatorname{sech} u}{du} = - \operatorname{sech} u. \tanh u.$$

120. 
$$\frac{d \operatorname{csch} u}{du} = -\operatorname{csch} u. \operatorname{coth} u.$$

121. 
$$\frac{d \sinh^{-1} u}{du} = \frac{1}{1/u^2 + 1}$$

122. 
$$\frac{d \cosh^{-1} u}{du} = \frac{1}{\sqrt{u^2 - 1}}$$

$$\frac{du}{125.} \frac{d \operatorname{sech}^{-1} u}{du} = \frac{1 - u^{2}}{u \sqrt{1 - u^{2}}}$$

$$du \qquad u \sqrt{1-u^2}$$
126. 
$$d \operatorname{csch}^{-1} u \qquad -1$$

$$du \qquad u \sqrt{u^2+1}$$

127. 
$$\frac{d \operatorname{gd} u}{du} = \operatorname{sech} u.$$

128. 
$$\frac{d \operatorname{gd}^{-1} u}{du} = \sec u.$$

F.—Integrals. (Integration Constants are Omitted.)

129. 
$$\int \sinh u \ du = \cosh u.$$

130. 
$$\int \cosh u \, du = \sinh u.$$

131. 
$$\int \tanh u \, du = \log \cosh u.$$

132. 
$$\int \coth u \, du = \log \sinh u.$$

133. 
$$\int \operatorname{sech} u \, du = 2 \tan^{-1} e^u = \operatorname{gd} u$$
.

134. 
$$\int \operatorname{csch} u \ du = \log \tanh \frac{u}{2}.$$

135. 
$$\int \sinh^{n} u \, du = \frac{1}{n} \sinh^{n-1} u \cdot \cosh u - \frac{n-1}{n} \int \sinh^{n-2} u \, du,$$
$$= \frac{1}{n+1} \sinh^{n+1} u \cosh u - \frac{n+2}{n+1} \int \sinh^{n+2} u \, du.$$

136. 
$$\int \cosh^n u \, du = \frac{1}{n} \sinh u \cdot \cosh^{n-1} u + \frac{n-1}{n} \int \cosh^{n-2} u \, du,$$
$$= -\frac{1}{n+1} \sinh u \cosh^{n+1} u + \frac{n+2}{n+1} \int \cosh^{n+2} u \, du.$$

137. 
$$\int u \sinh u \, du = u \cosh u - \sinh u$$
.

138. 
$$\int u \cosh u \, du = u \sinh u - \cosh u.$$

139. 
$$\int u^2 \sinh u \ du = (u^2 + 2) \cosh u - 2 u \sinh u$$
.

140. 
$$\int u^n \sinh u \, du = u^n \cosh u - nu^{n-1} \sinh u + n (n-1) \int u^{n-2} \sinh u \, du.$$

141. 
$$\int \sinh^2 u \ du = \frac{1}{2} \ (\sinh u \cosh u - u).$$

142. 
$$\int \sinh u \cdot \cosh u \, du = \frac{1}{4} \cosh (2 u)$$
.

143. 
$$\int \cosh^2 u \, du = \frac{1}{2} \left( \sinh u \cosh u + u \right)$$
.

144. 
$$\int \tanh^2 u \, du = u - \tanh u.$$

145. 
$$\int \coth^2 u \ du = u - \coth u.$$

146. 
$$\int \operatorname{sech}^2 u \ du = \tanh u$$
.

147. 
$$\int \operatorname{sech}^{8} u \ du = \frac{1}{2} \operatorname{sech} u \tanh u + \frac{1}{2} \operatorname{gd} u$$
.

148. 
$$\int \operatorname{csch}^2 u \ du = - \coth u.$$

149. 
$$\int \sinh^{-1} u \, du = u \sinh^{-1} u - (1 + u^2)^{\frac{1}{2}}.$$

150. 
$$\int \cosh^{-1} u \, du = u \cosh^{-1} u - (u^2 - 1)^{\frac{1}{2}}.$$

151. 
$$\int \tanh^{-1} u \ du = u \tanh^{-1} u + \frac{1}{2} \log (1 - u^2).$$

152. 
$$\int u \sinh^{-1} u \, du = \frac{1}{4} \left[ (2 u^2 + 1) \sinh^{-1} u - u (1 + u^2) \right].$$

153. 
$$\int u \cosh^{-1}u \, du = \frac{1}{4} \left[ (2 u^2 - 1) \cosh^{-1}u - u (u^2 - 1)^{\frac{1}{2}} \right].$$

154. 
$$\int (\cosh a + \cosh u)^{-1} du = 2 \operatorname{csch} a. \tanh^{-1} (\tanh \frac{1}{2} u. \tanh \frac{1}{4} a),$$

$$= \operatorname{csch} a \left[ \log \cosh \frac{1}{2} \left( u + a \right) - \log \cosh \frac{1}{2} \left( u - a \right) \right].$$

155. 
$$\int (\cos a + \cosh u)^{-1} du = 2 \csc a \cdot \tan^{-1} \left( \tanh \frac{1}{2} u \cdot \tan \frac{1}{2} a \right).$$

156. 
$$\int (1 + \cos a \cdot \cosh u)^{-1} du = 2 \csc a \cdot \tanh^{-1} (\tanh \frac{1}{2} u \cdot \tan \frac{1}{2} a).$$

157. 
$$\int \sinh u \cos u \, du = \frac{1}{2} \left( \cosh u \cdot \cos u + \sinh u \cdot \sin u \right).$$

158. 
$$\int \cosh u \cdot \cos u \, du = \frac{1}{2} \left( \sinh u \cdot \cos u + \cosh u \cdot \sin u \right).$$

759. 
$$\int \sinh u \cdot \sin u \, du = \frac{1}{2} \left( \cosh u \cdot \sin u - \sinh u \cdot \cos u \right).$$

160. 
$$\int \cosh u \cdot \sin u \, du = \frac{1}{2} \left( \sinh u \cdot \sin u - \cosh u \cdot \cos u \right).$$

161. 
$$\int \sinh(mu) \sinh(nu) du$$

$$= \frac{1}{m^2 - n^2} \left[ m \sinh(nu) \cosh(mu) - n \cosh(nu) \sinh(mu) \right]$$

162. 
$$\int \cosh (mu) \sinh (nu) du$$

$$= \frac{1}{m^2 - n^2} \left[ m \sinh (nu) \sinh (mu) - n \cosh (nu) \cosh (mu) \right].$$
163. 
$$\int \cosh (mu) \cosh (nu) du$$

$$= \frac{1}{m^2 - n^2} \left[ m \sinh (mu) \cosh (nu) - n \sinh (nu) \cosh (mu) \right].$$
164. 
$$\int \sinh u \tanh u du = \sinh u - g d u.$$
165. 
$$\int \cosh u \coth u du = \cosh u + \log \tanh \frac{u}{2}.$$
166. 
$$\int \sec u du = \gcd^{-1} u.$$
167. 
$$\int \sec^3 \phi d\phi = \int (1 + \tan^3 \phi)^{\frac{1}{2}} d \tan \phi = \frac{1}{2} \sec \phi \tan \phi + \frac{1}{2} \gcd^{-1} \phi,$$

$$= \frac{1}{2} \tan \phi (1 + \tan^3 \phi)^{\frac{1}{2}} + \frac{1}{2} \sinh^{-1} (\tan \phi). \text{ Here } \phi = g d u.$$
168. 
$$\int \frac{du}{(u^2 + a^2)^{\frac{1}{2}}} = \sinh^{-1} \frac{u}{a}. \qquad \int \frac{du}{(a^2 - u^2)^{\frac{1}{2}}} = \sin^{-1} \frac{u}{a}.$$
169. 
$$\int \frac{du}{(u^2 - a^2)^{\frac{1}{2}}} = \cosh^{-1} \frac{u}{a}. \qquad \int \frac{du}{(a^2 - u^2)^{\frac{1}{2}}} = \cos^{-1} \frac{u}{a}.$$
170. 
$$\int \frac{du}{(a^2 - u^2)^{\frac{1}{2}}} = \frac{1}{a} \tanh^{-1} \frac{u}{a}. \qquad \int \frac{du}{a^2 + u^2} = \frac{1}{a} \tan^{-1} \frac{u}{a}.$$
171. 
$$\int \frac{-du}{(u^2 - a^2)^{\frac{1}{2}}} = \frac{1}{a} \coth^{-1} \frac{u}{a}. \qquad \int \frac{du}{u(u^2 - a^2)^{\frac{1}{2}}} = \frac{1}{a} \sec^{-1} \frac{u}{a}.$$
173. 
$$\int \frac{-du}{u(a^2 - u^2)^{\frac{1}{2}}} = \frac{1}{a} \operatorname{csch}^{-1} \frac{u}{a}. \qquad \int \frac{du}{u(u^2 - a^2)^{\frac{1}{2}}} = \frac{1}{a} \sec^{-1} \frac{u}{a}.$$
174. 
$$\int \frac{du}{(au^2 + 2bu + c)^{\frac{1}{2}}} = \frac{1}{a} \sinh^{-1} \frac{au + b}{(ac - b^2)^{\frac{1}{2}}}, \qquad a \text{ positive, } ac > b^2;$$

$$= \frac{1}{\sqrt{-a}} \cosh^{-1} \frac{au + b}{(b^2 - ac)^{\frac{1}{2}}}, \qquad a \text{ positive, } ac > b^2;$$

$$= \frac{1}{(b^2 - ac)^{\frac{1}{2}}} \tanh^{-1} \frac{au + b}{(b^2 - ac)^{\frac{1}{2}}}, \qquad ac > b^2;$$

$$= \frac{-1}{(b^2 - ac)^{\frac{1}{2}}} \tanh^{-1} \frac{au + b}{(b^2 - ac)^{\frac{1}{2}}}, \qquad ac > b^2;$$

 $(b^2-ac)^{\frac{1}{2}} \coth^{-1} \frac{au+b}{(b^2-ac)^{\frac{1}{2}}}, \quad ac < b^2, \\ au+b > (b^2-ac)^{\frac{1}{2}}.$ 



176. 
$$\int \frac{du}{(a-u)(u-b)^{\frac{1}{2}}} = \frac{2}{(a-b)^{\frac{1}{2}}} \tanh^{-1} \sqrt{\frac{u-b}{a-b}},$$
or 
$$\frac{-2}{(b-a)^{\frac{1}{2}}} \tan^{-1} \sqrt{\frac{u-b}{b-a}},$$
or 
$$\frac{-2}{(a-b)^{\frac{1}{2}}} \coth^{-1} \sqrt{\frac{u-b}{a-b}}.$$
 (The real form is to be taken.

177. 
$$\int \frac{du}{(a-u)(b-u)^{\frac{1}{2}}} = \frac{2}{(b-a)^{\frac{1}{2}}} \tanh^{-1} \frac{\overline{b-u}}{b-a},$$
or 
$$\frac{2}{(\overline{b-a})^{\frac{1}{2}}} \coth^{-1} \sqrt{\frac{b-u}{b-a}},$$
or 
$$\frac{-2}{(a-b)^{\frac{1}{2}}} \tan^{-1} \sqrt{\frac{b-u}{a-b}}.$$
 (The real form is to be taken.)

178. 
$$\int (u^2 - a^2)^{\frac{1}{2}} du = \frac{1}{2} u (u^2 - a^2)^{\frac{1}{2}} - \frac{1}{2} a^2 \cosh^{-1} \frac{u}{a}.$$

179. 
$$\int (a^2 - u^2)^{\frac{1}{2}} du = \frac{1}{2} u (a^2 - u^2)^{\frac{1}{2}} + \frac{1}{2} a^2 \sin^{-1} \frac{u}{a}.$$

180. 
$$\int (u^2 + a^2)^{\frac{1}{2}} du = \frac{1}{2} u (u^2 + a^2)^{\frac{1}{2}} + \frac{1}{2} a^2 \sinh^{-1} \frac{u}{a}.$$

181. 
$$\int e^{au} du = \frac{e^{au}}{a}.$$

182. 
$$\int ue^{au} du = \frac{e^{au}}{a^2} (au - 1).$$

183. 
$$\int u^m e^{au} du = \frac{u^m e^{au}}{a} - \frac{m}{a} \int u^{m-1} e^{au} du$$
.

184. 
$$\int \frac{e^{au} du}{u^m} = \frac{1}{m-1} \left[ -\frac{e^{au}}{u^{m-1}} + a \int \frac{e^{au} du}{u^{m-1}} \right].$$

$$185. \int a^{bu} du = \frac{a^{bu}}{b \log a}.$$

186. 
$$\int u^{n} a^{u} du = \frac{a^{u} u}{\log a} - \frac{na^{u} u^{n-1}}{(\log a)^{2}} + \frac{n(n-1) a^{u} u^{n-2}}{(\log a)^{3}} \cdot \frac{n(n-1)(n-2) \cdot \cdot \cdot 2 \cdot 1 a^{u}}{(\log a)^{n+1}}$$

187. 
$$\int \frac{a^{u} du}{u^{n}} = \frac{a^{u}}{n-1} \left[ -\frac{1}{u^{n-1}} - \frac{\log a}{(n-2)u^{n-2}} - \frac{(\log a)^{2}}{(n-2)(n-3)u^{n-2}} - \frac{(\log a)^{n-1}}{(n-2)(n-3) \dots + 2.1} \int \frac{a^{u} du}{u} \right],$$

188. 
$$\int \frac{a^u \, du}{u} = \log u + u \log a + \frac{(u \log a)^2}{2 \cdot 2!} + \frac{(u \log a)!}{3 \cdot 3!} + \dots$$

189. 
$$\int \frac{du}{1 + e^u} = \log \frac{e^u}{1 + e^u}.$$

190. 
$$\int \frac{du}{a + be^{mu}} = \frac{1}{am} \left[ mu - \log \left( a + be^{mu} \right) \right].$$

191. 
$$\int \frac{du}{ae^{mu} + be^{-mu}} = \frac{1}{m(ab)^{\frac{1}{2}}} \tan^{-1} \left( e^{mu} \sqrt{\frac{a}{b}} \right).$$

192. 
$$\int \frac{du}{(a+be^{mu})^{\frac{1}{2}}} = \frac{1}{m\sqrt{a}} \left[ \log \left( \sqrt{a+be^{mu}} - \sqrt{a} \right) \right]$$

$$-\log\left(\sqrt{a+be^{mu}}+\sqrt{a}\right)\right].$$

193. 
$$\int \frac{ue^{u} du}{(1+u)^{2}} = \frac{e^{u}}{1+u}.$$

194. 
$$\int e^{uu} \log u \, du = \frac{e^{au} \log u}{a} - \frac{1}{a} \int \frac{e^{au} \, du}{u}.$$

195. 
$$\int \log u \ du = u \log u - u.$$

196. 
$$\int u^m \log u \, du = u^{m+1} \left[ \frac{\log u}{m+1} - \frac{1}{(m+1)^2} \right].$$

197. 
$$\int (\log u)^n du = u (\log u)^n - n \int (\log u)^{n-1} du$$

198. 
$$\int u^m (\log u)^n du = \frac{u^{m+1} (\log u)^n}{m+1} - \frac{n}{m+1} \int u^m (\log u)^{n-1} du.$$

199. 
$$\int \frac{(\log u)^n du}{u} = \frac{(\log u)^{n+1}}{n+1}$$

200. 
$$\int \frac{du}{\log u} = \log (\log u) + \log u + \frac{(\log u)^2}{2 \cdot 2!} + \frac{(\log u)^8}{3 \cdot 3!} + \dots$$

201. 
$$\int \frac{du}{(\log u)^n} = -\frac{u}{(n-1)(\log u)^{n-1}} + \frac{1}{n-1} \int \frac{du}{(\log u)^{n-1}}.$$

202. 
$$\int \frac{u^m du}{(\log u)^n} = -\frac{u^{m+1}}{(n-1)(\log u)^{n-1}} + \frac{m+1}{n-1} \int \frac{u^m du}{(\log u)^{n-1}}.$$

203. 
$$\int \frac{u^m du}{\log u} = \int \frac{e^{-y}}{v} dy, \text{ where } y = -(m+1) \log u.$$

204. 
$$\int \frac{du}{u \log u} = \log (\log u).$$

205. 
$$\int \frac{du}{u (\log u)^n} = -\frac{1}{(n-1) (\log u)^{n-1}}.$$

$$206. \int (a+bu)^m \log u \, du =$$

$$\frac{1}{b(m+1)}\left[(a+bu)^{m+1}\log u-\int\frac{(a+bu)^{m+1}du}{u}\right].$$

$$207. \int u^m \log (a + bu) du =$$

$$\frac{1}{m+1} \left[ u^{m+1} \log \left( a + bu \right) - b \int \frac{u^{m+1} du}{a + bu} \right].$$

$$208. \int \frac{\log (a + bu) du}{u} =$$

$$\log a \cdot \log u + \frac{bu}{a} - \frac{1}{2^2} \left(\frac{bu}{a}\right)^2 + \frac{1}{3^2} \left(\frac{bu}{a}\right)^3 - \cdots$$

$$= \frac{1}{2} (\log bu)^2 - \frac{a}{bu} + \frac{1}{2^2} \left(\frac{a}{bu}\right)^2 - \frac{1}{3^2} \left(\frac{a}{bu}\right)^3 + \cdots$$

209. 
$$\int \frac{\log u \, du}{(a + bu)^m} = \frac{1}{b \, (m - 1)} \left[ -\frac{\log u}{(a + bu)^{m-1}} + \int \frac{du}{u \, (a + bu)^{m-1}} \right]$$

210. 
$$\int \frac{\log u \, du}{a + bu} = \frac{1}{b} \log u \cdot \log \left( a + bu \right) - \frac{1}{b} \int \frac{\log \left( a + bu \right)}{u} \, du.$$

211. 
$$\int (a+bu) \log u \, du = \frac{(a+bu)^2}{2b} \log u - \frac{a^2 \log u}{2b} - au - \frac{1}{4}bu^2.$$

$$212. \int \frac{\log u \, du}{(a+bu)^{\frac{1}{2}}} =$$

$$\frac{2}{b} \left[ (\log u - 2) \sqrt{(a + bu)} + \sqrt{a} \log (\sqrt{a + bu} + \sqrt{a}) - \sqrt{a} \log (\sqrt{a + bu} - \sqrt{a}) \right], \text{ if } a > 0,$$

$$=\frac{2}{b}\left[\left(\log u-2\right)\sqrt{(a+bu)}+2\sqrt{-a}\tan^{-1}\sqrt{\frac{a+bu}{-a}}\right], \text{ if } a<0.$$

213. 
$$\int_{0}^{\infty} e^{-a^{2}u^{2}} du = \frac{\sqrt{\pi}}{2\pi} = \frac{1}{2\pi} \Gamma(\frac{1}{2}).$$

214. 
$$\int_0^\infty u^n \, e^{-au} \, du = \Gamma \, \frac{(n+1)}{a^{n+1}} = \frac{n!}{a^{n+1}}.$$

215. 
$$\int_0^\infty u^{2n} e^{-au^2} du = \frac{1 \cdot 3 \cdot 5 \cdot \cdot \cdot (2n-1)}{2^{n+1} a^n} \sqrt{\frac{\pi}{a}}.$$

215. 
$$\int_{0}^{\infty} u^{2n} e^{-uu} du = \frac{1}{2^{n+1} a^{n}} \sqrt{a}.$$
216. 
$$\int_{0}^{\infty} e^{-u^{2} - \frac{a^{2}}{u^{2}}} du = \frac{e^{-2a}}{2} \sqrt{\pi}.$$

217. 
$$\int_{0}^{\infty} e^{-nu} \sqrt{u} du = \frac{1}{2n} \sqrt{\frac{\pi}{n}}$$
.

218. 
$$\int_0^\infty \frac{e^{-nu}}{\sqrt{u}} du = \sqrt{\frac{\pi}{n}}.$$

$$\int_{0}^{\infty} Vu \qquad n$$

$$219. \int_0^\infty \frac{du}{\sinh (nu)} = \frac{\pi}{2n}.$$

220. 
$$\int_0^{\infty} \frac{u \ du}{\sinh (nu)} = \frac{\pi^2}{4 \ n^2}.$$

221. 
$$\int_0^{i\pi} \sinh(mu) \cdot \sinh(nu) du = \int_0^{i\pi} \cosh(mu) \cdot \cosh(nu) du$$
$$= 0, \text{ if } m \text{ is different from } n.$$

222. 
$$\int_0^{i\pi} \cosh^2(mu) \, du = -\int_0^{i\pi} \sinh^2(mu) \, du = \frac{i\pi}{2}.$$

223. 
$$\int_{-i\pi}^{+i\pi} \sinh(mu) du = 0.$$

224. 
$$\int_0^{i\pi} \cosh(mu) du = 0.$$

225. 
$$\int_{-i\pi}^{i\pi} \sinh (mu) \cosh (nu) du = 0.$$

226. 
$$\int_0^{i\pi} \sinh{(mu)} \cosh{(mu)} du = 0.$$

227. 
$$\int_0^1 \frac{\log u}{1-u} du = -\frac{\pi^2}{6}.$$

228. 
$$\int_0^1 \frac{\log u}{1+u} \ du = -\frac{\pi^2}{12}.$$

229. 
$$\int_0^1 \frac{\log u}{1-u^2} du = -\frac{\pi^2}{8}.$$

230. 
$$\int_0^1 \log \left( \frac{1+u}{1-u} \right) \cdot \frac{du}{u} = \frac{\pi^2}{4}.$$

231. 
$$\int_0^1 \frac{\log u \ du}{(1-u^2)^{\frac{1}{2}}} = -\frac{\pi}{2} \log 2.$$

232. 
$$\int_0^1 \frac{(u^p - u^q) \ du}{\log u} = \log \frac{p+1}{q+1}, \text{ if } p+1 > 0, q+1 > 0.$$

233. 
$$\int_0^1 (\log u)^n du = (-1)^n \cdot n!.$$

234. 
$$\int_0^1 \left(\log \frac{1}{u}\right)^{\frac{1}{2}} du = \sqrt{\frac{\pi}{2}}$$

$$235. \int_0^1 \left(\log \frac{1}{u}\right)^n du = n!.$$

$$236. \int_0^1 \frac{du}{\left(\log \frac{I}{u}\right)^{\frac{1}{2}}} = \sqrt{\pi}.$$

237. 
$$\int_0^1 u^m \log \left(\frac{1}{u}\right)^n du = \frac{\Gamma(n+1)}{(m+1)^{n+1}}$$
, if  $m+1>0$ ,  $n+1>0$ .

238. 
$$\int_0^\infty \log\left(\frac{e^u + 1}{e^u - 1}\right) du = \frac{\pi^2}{4}$$
.

G.—Formulas for the Solution of Pseudo-spherical Triangles.

$$\sin A = \frac{\cot II(a)}{\cot II(c)} = \frac{\sinh a}{\sinh c}.$$

$$\cos A = \frac{\cos II(b)}{\cos II(c)} = \frac{\tanh b}{\tanh c}.$$

$$\cos A = \frac{\sin B}{\sin H(a)} = \sin B \cosh a.$$

$$\cot A = \frac{\cot \Pi(b)}{\cos \Pi(a)} = \frac{\sinh b}{\tanh a}$$
$$\cos B = \frac{\cos \Pi(a)}{\cos \Pi(c)} = \frac{\tanh a}{\tanh c}.$$

$$\cos B = \frac{\sin A}{\sin \Pi(b)} = \sin A \cosh b.$$

$$\sin B = \frac{\cot \Pi(b)}{\cot \Pi(c)} = \frac{\sinh b}{\sinh c}$$

$$\cot B = \frac{\cot \Pi(a)}{\cos \Pi(b)} = \frac{\sinh a}{\tanh b}$$

 $\tan A \tan B = \sin \Pi(c) = \sin \Pi(a) \sin \Pi(b)$ . = sech  $c = \operatorname{sech} a \operatorname{sech} b$ .

The general relations are:

 $\cosh a = \cosh b \cosh c - \sinh b \sinh c \cos A.$  $\sin A \sinh b = \sin B \sinh a.$ 

 $\coth a \sinh b = \cosh b \cos C + \sin C \cot A.$ 

 $\cos A = -\cos B \cos C + \sin B \sin C \cosh \alpha$ 

Forti solves the six typical cases in the following manner:

CASE 1.—Given a, b, c. Put 2p = a + b + c. Then,

$$\tan \frac{1}{2} A = \sqrt{\frac{\sinh (p-b) \cdot \sinh (p-c)}{\sinh p \sinh (p-a)}}.$$

The conditions are a < b + c; b < a + c; and c < a + b.

CASE 2.—Given a, b, A. Draw the geodetic line CD perpendicular to AB. Then a > CD;  $\frac{\sinh b \sin A}{\sinh a} < 1$ ;  $\cot \frac{1}{2} C > 0$ ; and  $\tanh \frac{1}{2} c > 0$ .

$$\sin B = \frac{\sinh b \sin A}{\sinh a}$$

$$\cos \frac{1}{2} C = \frac{\tan \frac{1}{2} (A - B) \sinh \frac{1}{2} (a + b)}{\sinh \frac{1}{2} (a - b)}.$$

$$\tanh \frac{1}{2} c = \frac{\tanh \frac{1}{2} (a - b) \sin \frac{1}{2} (A + B)}{\sin \frac{1}{2} (A - B)}.$$
CASE 3.—Given  $a, b, C$ .  $2\Delta = \pi - (A + B + C)$ .
$$\tan \frac{1}{2} (A + B) = \cot \frac{1}{2} C \frac{\cosh \frac{1}{2} (a - b)}{\cosh \frac{1}{2} (a + b)}.$$

$$\tan \frac{1}{2} (A - B) = \cot \frac{1}{2} C \frac{\sinh \frac{1}{2} (a - b)}{\sinh \frac{1}{2} (a + b)}.$$

$$\tanh \frac{1}{2} c = \sqrt{\frac{\sin \Delta \sin (\Delta + C)}{\sin (\Delta + A) \sin (\Delta + B)}}.$$

CASE 4.—Given A, B, c.  $A + B < \pi$  and DBC < DBG. The angle DBG is the angle between the geodetic DB drawn perpendicular to AC and the geodetic BG drawn parallel to AC.

$$\tanh \frac{1}{2} (a+b) = \tanh \frac{1}{2} c \frac{\cos \frac{1}{2} (A-B)}{\cos \frac{1}{2} (A+B)}$$

$$\tanh \frac{1}{2} (a-b) = \tanh \frac{1}{2} c \frac{\sin \frac{1}{2} (A-B)}{\sin \frac{1}{2} (A+B)}$$

$$\tan \frac{1}{2} C = \sqrt{\frac{\sinh (p-a) \sinh (p-b)}{\sinh p \sinh (p-c)}}$$

CASE 5.—Given A, B, a. a > CD and  $A + B < \pi$ .

Solve the two right triangles formed by the geodetic line CD drawn perpendicular to AB.

Case 6.—Given A, B, C. 
$$A+B+C < \pi$$
.
$$\tanh \frac{1}{2} a = \sqrt{\frac{\sin \Delta \sin (\Delta + A)}{\sin (\Delta + B) \sin (\Delta + C)}}$$

H.—FORMULAS FOR THE SOLUTION OF THE CUBIC1.

If a cubic equation is given in the form

$$z^3 + az^2 + bz + c = 0$$

it can be reduced by the substitution  $z = x - \frac{a}{3}$  to the simpler form  $x^3 + px + q = 0$ .

<sup>&</sup>lt;sup>1</sup>Taken from Des Ingenieurs Taschenbuch der Hütte, Berlin, 18th edition.

Case 1.—When  $x^3 + px \pm q = 0$ ; p and q positive. Compute the auxiliary variable u from  $\sinh u = \frac{\frac{1}{2}q}{\frac{1}{8}p(\frac{1}{8}p)^{\frac{1}{2}}}$ ; then the roots are

$$x_1 = \mp 2 \sqrt{\frac{1}{8} p} \sinh \frac{1}{8} u.$$

$$x_{3} = \pm \sqrt{\frac{1}{3}\rho} \sinh \frac{1}{3}u + i\sqrt{\rho} \cosh \frac{1}{3}u.$$

$$x_3 = \pm \sqrt{\frac{1}{3} p} \sinh \frac{1}{3} u - i \sqrt{p} \cosh \frac{1}{3} u.$$

CASE 2.—When  $x^8 - px = q = 0$ ; p and q positive.  $(\frac{1}{3}p)^8 < (\frac{1}{2}q)^3$ . Compute u from  $\cosh u = \frac{\frac{1}{2}q}{\frac{1}{3}p(\frac{1}{3}p)^{\frac{1}{2}}}$ ; then the roots are

$$x_1 = \mp 2 \sqrt{\frac{1}{8} p} \cosh \frac{1}{8} u.$$

$$x_2 = \pm \sqrt{\frac{1}{3}p} \cosh \frac{1}{3}p + i \sqrt{p} \sinh \frac{1}{3}u.$$

$$x_3 = \pm \sqrt{\frac{1}{8} \rho} \cosh \frac{1}{8} u - i \sqrt{\rho} \sinh \frac{1}{8} u.$$

CASE 3.—When  $x^8 - px \pm q = 0$ ; p and q positive.  $(\frac{1}{3}p)^8 > (\frac{1}{2}q)^2$ . Compute the angle u from  $\cos u = \frac{\frac{1}{2}q}{1 p(\frac{1}{2}p)^{\frac{1}{2}}}$ ; then the roots are

$$x_1 = \mp 2 \sqrt{\frac{1}{3} p} \cos \frac{1}{3} u.$$

$$x_2 = \mp 2 \sqrt{\frac{1}{3} p} \cos (\frac{1}{3} p + 120^\circ).$$

$$x_3 = \mp 2 \sqrt{\frac{1}{3} p} \cos (\frac{1}{3} u + 240^\circ).$$

CASE 4.—When  $x^3 - px \pm q = 0$ ; p and q positive.  $(\frac{1}{3}p)^3 = (\frac{1}{2}q)^3$ .

$$x_1 = \mp 2 \sqrt{\frac{1}{3} p}$$
.  
 $x_2 = x_3 = \pm \sqrt{\frac{1}{3} p}$ .

For applications of hyperbolic and circular functions to the solution of the cubic whose coefficients are general (i. e., real or complex), see a brief paper by Mr. W. D. Lambert in American Mathematical Monthly for April, 1906.

### GEOMETRICAL ILLUSTRATIONS OF HYPERBOLIC FUNCTIONS.

The algebraic relationship of the hyperbolic functions to the circular functions has been discussed in the section on definitions and formulas. A close relationship also exists between the elliptic functions and the hyperbolic functions. Thus it may be shown that the elliptic integral of the first kind,

$$u = \int \frac{d\phi}{\sqrt{1 - k^2 \sin^2 \phi}}$$

in which k is the modulus and  $\phi$  the amplitude, reduces to  $u = gd^{-1}\phi$  when k = 1. The elliptic functions thus degenerate into the hyperbolic functions when the modulus is equal to unity. A case in point is the elastica, the equation of which takes the form of an elliptic integral, excepting when the modulus is unity. It then reduces to the two equations

$$=u$$
 2  $\tanh u$ ;  $\frac{y}{a} = \frac{z}{\cosh u}$ ,

which is a syntractrix described by the free end of a rod whose middle point traces out the tractory.

Ligowski gives the following easy geometrical method of demonstrating the relations between the hyperbolic and circular functions. Let the equation of the circle of unit radius be

$$x^2_c + y^2_c = 1$$
,

and call  $u_c$  the arc of this circle from the positive x axis to the point  $x_c y_c$ 

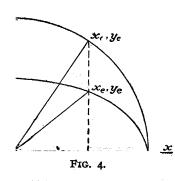
Then, of course, the circle may be represented by the two equations

$$x_c = \cos u_c$$
;  $y_c = \sin u_c$ .

Now, the area of the circular sector, whose

chord is 
$$2y_c$$
, is  $\frac{2.u_c.1}{2} = u_c$ , so that  $x_c$  and

 $y_c$  may be regarded as the cosine and sine of a sector  $u_c$ . The ellipse may be derived from the unit circle by multiplying the ordinates  $y_c$  by b. Hence, in the ellipse, the area of the sector subtended by the chord  $\mathbf{z} y_c$  is, say,  $u_c$  and  $u_c = bu_c$ .



<sup>&</sup>lt;sup>1</sup> If in these equations m is substituted for 2 they represent any syntractrix. The two equations, with this substitution, can be combined to the following:

$$\frac{(au-x)^2}{a^2 m^2} + \frac{y^2}{a^2 m^2} = 1,$$

showing that the curve is traced by a point on a circle of radius am whose center is in motion. It is noteworthy that if in this equation the hyperbolic sector u is replaced by a circular sector  $\phi$ , the new equation represents a prolate or a curtate cycloid, or better the syncycloid. Thus the syntractrix may be considered as a syncycloid with an infinite period.

Thus

$$x_e = \cos u_e = \cos \frac{u_e}{\lambda},$$

$$y_c = \sin u_c = \frac{y_e}{b} = \sin \frac{u_e}{b},$$

so that for the ellipse,

$$x^{2}_{e} + \frac{y^{*}_{e}}{z^{2}} = 1$$

$$x_e = x_e = \cos\frac{u_e}{b} \; ; \; y_e = b \sin\frac{u_e}{b} .$$

The equation

$$x^2 - y^2 = 1$$

represents an equilateral hyperbola, and if u is the area of the hyperbolic sector whose chord is 2y, then there can be no objection to writing

$$x = \cosh u$$
;  $y = \sinh u$ ,

where cosh and sinh are functions whose nature is still to be determined. The most evident relation is

$$\cosh^2 u - \sinh^2 u = 1.$$

Now if  $i=\sqrt{-1}$ , the hyperbola may be written

$$x^2 + \frac{y^2}{i^2} = 1,$$

which is an ellipse whose major axis is unity and whose minor axis is i. Comparing this with the ellipse discussed above, it appears at once that

$$x = \cosh u = \cos \frac{u}{i},$$

$$y = \sinh u = i \sin \frac{u}{i},$$

or, in an equivalent form,

$$\cosh u = \cos iu; \sinh u = -i \sin iu,$$
  

$$\cosh iu = \cos u: \sinh iu = i \sin u.$$

The investigation of  $\cosh u$  and  $\sinh u$  can be completed in various ways; for example, by writing out the series for  $\cos iu$  and  $-i \sin iu$  and showing that their sum or difference is  $e^{\pm u}$ .

The geometrical properties of the hyperbolic functions themselves are commonly discussed in reference to the equilateral hyperbola. They could also be derived from the geometry of the ellipse without reference to the hyperbola; but a more perspicuous method seems to be to study the relations of these functions to both curves at the same time.

In any ellipse,

$$\frac{x^2}{\beta^2} + \frac{\nu^2}{\alpha^2} = 1,$$

<sup>&</sup>lt;sup>1</sup>See Bull. Geol. Soc. Am., vol. 2, 1891, p. 49, and Am. Jour. Sci., vol. 46, 1893, p. 337.

the area  $\alpha \beta$  may be chosen as the unit area, so that the equation of the curve becomes

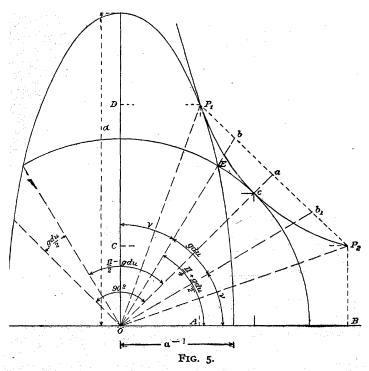
$$a^2 x^2 + \frac{y^2}{a^2} = 1.$$

By varying the value of a in this equation a family of ellipses is obtained each of area  $\pi$ , all with the same center and all with axes lying in the axes of coördinates. The envelope of this system of curves is the hyperbola  $xy = \frac{1}{2}$ , and this may be conceived as generated by the motion of a single point. The coördinates of the point  $P_1$ , at which the hyperbola is tangent to the ellipse, are

$$x_1 = \frac{1}{\sqrt{2}\alpha}$$
  $y_1 = \frac{\alpha}{\sqrt{2}}$ ;

and the coördinates of the point c at which the hyperbola is tangent to the unit circle, are

$$x = y = \frac{1}{\sqrt{2}}.$$



If the hyperbola is conceived as generated by the point c in moving from its original position to  $P_1$  (or as a "line of flow"), its radius vector sweeps over an hyperbolic sector  $ocP_1$ . If this area is called  $\frac{u}{2}$ , then by a well-known formula,  $du = x \, dv - v \, dx.$ 

and because  $xy = \frac{1}{2}$ ,

$$du = \frac{1}{2} \left( \frac{dy}{y} - \frac{dx}{x} \right).$$

Since no integration constant is required,

$$u = \frac{1}{2} \log \frac{y_1}{x_1} = \frac{1}{2} \log a^2 \text{ or } a = e^u.$$

The area u is the sector  $oP_1 cP_2$ , where the coördinates of  $P_2$  are  $x_2 = y_1$ , and  $y_2 = x_1$ . It is noteworthy that two other areas,  $AP_1 cP_2 B$  and  $CDP_1 cP_2$ , have this same value, for evidently

$$\int_{x_1}^{x_2} y \ dx = \int_{y_1}^{y_2} x \ dy = \log a = u.$$

The length of the chord  $P_1$   $P_2$  is

$$\sqrt{(x_2-x_1)^2+(y_1-y_2)^2}=\alpha-\alpha^{-1},$$

and half of this, or  $P_1$  a, is the hyperbolic sine which may evidently be put in the form

$$\sinh u = \frac{e^u - e^{-u}}{2}.$$
 hyperbola,

Since the curve  $P_1 cP_2$  is an hyperbola,

$$oa^2 - aP_1^2 = 1,$$

and therefore

$$oa = \sqrt{1 - \sinh^2 u} = \frac{e^u + e^{-u}}{1 - \sinh^2 u} = \cosh u.$$

The diameters connecting the points of intersection of the unit circle and the ellipse, whose axes are a and  $a^{-1}$ , may be called the isocyclic diameters of the ellipse, because the circle and the ellipse have the same area. These diameters are not conjugate. If the ellipse is conceived as the section on the greatest and least axes of an ellipsoid of unit volume, the isocyclic diameters are the traces of the circular sections of the ellipsoid. The coordinates of one of the points of intersection, say E, are

$$x = \frac{1}{\sqrt{\alpha^2 + 1}}; y = \frac{\alpha}{\sqrt{\alpha^2 + 1}};$$

and therefore the angle  $\nu$ , which the vector oE makes with the major axis of the ellipse, is given by the relation

$$\tan \nu = \alpha^{-1} = e^{-u},$$

and it follows that

that
$$\tan\left(\frac{\pi}{2}-2\nu\right)=\frac{1}{2}\left(\cot\nu-\tan\nu\right)=\sinh u.$$

This angle  $\left(\frac{\pi}{2}-2v\right)$  is gd u, or the gudermannian of u, so that in any

ellipse whatever the angle made by any line parallel to one isocyclic diameter with a perpendicular on the other isocyclic diameter is the gudermannian of the natural logarithm of the semi-major axis, this being expressed in terms of the isocyclic radius, which in the general case is the square root of the product of the semiaxes. In the diagram the gudermannian  $bob_1$  is shown as bisected by the axis of the hyperbola, and it is worth remarking that if the ellipse were to be distorted into a circle by compressing the major axis and elongating the minor axis, the line ob would be brought into coincidence with  $ob_1$ , so that gd u can be defined as the angle through which an isocyclic diameter has swept when the ellipse has been derived from a circle by irrotational plane strain.

The angle  $45^{\circ} + \frac{gd u}{2}$  which occurs in the formula for meridional parts is the angle made by either isocyclic diameter of the ellipse with the minor axis, and the tangent of this angle is the semi-major axis a.

The twofold relations of the hyperbolic functions to the hyperbola and the ellipse are illustrated in a somewhat different manner in figure 6.

Here the curve  $p_1 c p_2$  is an arc of an hyperbola  $y^2 - x^2 = 1$ . If the area of the sector  $o p_1 c p_2$  is called u,  $a p_1 = \sinh u$  and  $oa = \cosh u$ . Make  $bc = p_1 a$  and draw the associated ellipse shown in the diagram. Then the angle boc = gdu;  $bo = \cosh u$  and

$$\tan g d u = \sinh u$$

$$\sec g d u = \cosh u$$

$$\sin g d u = \tanh u.$$

The ellipse has corresponding properties. Since the gudermannian is the angle between either isocyclic diameter and a line perpendicular to the other, the line ob may be regarded as coinciding with one isocyclic diameter and the axis of abscissas with the other. The major axis of the ellipse then bisects

$$\frac{x^2}{a^2} + \frac{y^2}{b^2} + \frac{z^2}{c^2} = 1$$
;  $a > b > c$ .

If  $\frac{b}{c} = \cosh u_1$ , and  $\frac{a}{b} = \cosh u_2$ ,

the angle v which the circular section makes with the greatest axis is given by

$$\tan \nu = \frac{1}{i} \tanh i\nu = \frac{b^{-2} - a^{-2}}{c^{-2} - b^{-2}} = \frac{\tanh u_1}{\sinh u_2}$$

If  $u_1 = u_2$  and  $\frac{a}{b} = a$  this expression reduces to  $\tan v = a^{-1}$ , or to the case of the shear ellipsoid.

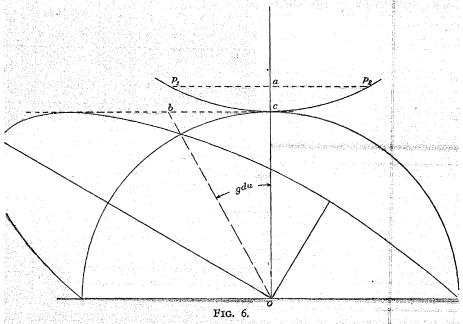
<sup>&</sup>lt;sup>1</sup>The isocyclic diameter used in this illustration of hyperbolic functions lies in the circular section of a shear ellipsoid, or an ellipsoid in which the mean axis is a mean proportional between the greatest and least axes. The position of the circular section of the general ellipsoid is also readily expressed in terms of hyperbolic functions. Let the equation of the ellipsoid be

the angle 90° — gdu, its magnitude is  $2e^{u}$ , and the equation of the ellipse is

$$x^{2} + 4 xy \tan gd u + y^{2} (4 \tan^{2} gd u + 1) = 1.$$

By varying the value of  $\tan gdu$  (or  $\sinh u$ ) a system of ellipses is obtained whose envelopes are  $y=\pm 1$ , so that if any one of the ellipses is supposed to be derived from the circle by distortion, the process is that generally known as "shearing motion or scission."

If the points in the circle are sought which correspond to the points on the



major axis of the ellipsoid, it will be found that the angle between the two positions (the angle of rotation) is equal to the gudermannian.

If instead of the horizontal, the vertical line in figure 6 had been taken as coinciding with the isocyclic diameter of the ellipse, the result would have been the discovery of a system of ellipses whose envelopes are  $x=\pm t$ , similar in all respects excepting orientation to that discussed.

<sup>&</sup>lt;sup>1</sup>Love's Treatise on the Theory of Elasticity, vol. 1, p. 43.

#### METHODS OF INTERPOLATION.

It is not easy to describe the use of the tables which follow without some notes on the methods of interpolation with reference to which they are arranged. In all of them the argument advances by equal increments, each equal, say, to  $\omega$ . It is required to find a value of the function F intermediate between two tabulated values,  $F_0$  and  $F_1$ , corresponding to a fractional value of the argument or to  $n\omega$ , where n is always less than unity, and preferably less than one-half.

Let  $F_n$  be the value of the function to be determined; let  $F_{-1}$  and  $F_{-2}$  be tabulated values of F immediately preceding  $F_0$ , and let  $F_1$ ,  $F_2$  be values immediately following  $F_0$ . Denote  $F_1 - F_0$  by  $a_1$ , other first differences ( $\Delta'$ ) being similarly represented. If also  $a_2 - a_1 = b_1$ ,  $b_1 - b_0 = c_1$ , etc., the whole system of functions and differences is shown in the following schedule:

F	Δ' Δ''	Δ'''	∆iv	Δv	_lvi
$F_{-2}$	,,,	31.5 m. mg	d''		f"
F-1	a b'	C'	ď	e	f'
$F_{0}$	$\begin{bmatrix} a_1 \\ a_2 \end{bmatrix}$	c <sub>1</sub>	$d_{0}$	$e_1$	$\mathcal{J}_0$
$F_1$	$\begin{bmatrix} a_2 & b_1 \\ a_2 & \end{bmatrix}$	c <sub>2</sub>	$d_{_{1}}$	$\mathcal{C}_2$	$f_1$
$egin{array}{c} F_{1} \ F_{2} \end{array}$	$b_1$	$c_2$	$egin{array}{c} d_{_1} \ d_{_2} \end{array}$	$\mathcal{C}_2$	$f_1$ $f_2$

The most familiar formula of interpolation is due to Newton, and in the above notation it may be written thus:

$$F_{n} - F_{0} = na_{1} + \frac{n(n-1)}{2!}b_{1} + \frac{n(n-1)(n-2)}{3!}c_{2}$$

$$n(n-1)(n-2)(n-3)d_{2} + \dots$$

<sup>1</sup>The notation and general outline of treatment here presented closely follow Mr. Herbert L. Rice's treatise, Theory and Practice of Interpolation, 1899. The Nichols Press, Lynn, Massachusetts.

The coefficients are those of the binomial theorem. This formula is applicable to the first intervals of a series, which is not the case with any other mode of interpolation. It may also be adapted to the last intervals by substituting -n for n and a', b', c'', d'', . . . for  $a_1$ ,  $b_1$ ,  $c_2$ ,  $d_2$ , . . . . In systematic interpolation, such as is involved in the construction of tables, it is usual to employ the more rapidly converging formulas of Stirling or Bessel, but when a computing machine and a table of products are available it is sometimes less laborious to compute an extra term of Newton's formula than to calculate and apply the mean differences called for by the other methods. Both Stirling's and Bessel's formulas can be derived from Newton's by known relations between the several differences.

In Stirling's formula the mean of the first differences next preceding and following  $F_0$  is made use of instead of only the latter, as in Newton's formula. The third differences are similarly treated, so that  $a_0$ ,  $c_0$ , etc., being new quantities, are defined by

$$a' + a_1 - a_0$$
;  $\frac{c' + c_1}{2} = c_0$ , etc.

These mean values are used in conjunction with the even differences on the same horizontal line with  $F_0$  in the schedule, and Stirling's formula is

$$F_n - F_0 = na_0 + \frac{n^2}{2!} b_0 + \frac{n(n^2 - 1)}{3!} c_0 + \frac{n^2(n^2 - 1)}{4!} d_0 + \frac{n(n^2 - 1)(n^2 - 4)}{5!} e_0 + \dots$$

To interpolate backward it is only needful to substitute -n for n.

In Bessel's formula use is made of mean differences of the even orders, and if b, d, etc., are these means they are defined in terms of the scheduled differences, thus:

$$\frac{b_0 + b_1}{a} = b$$
;  $\frac{d_0 + d_1}{a} = d$ , etc.

They are used in conjunction with the simple odd differences  $a_1, c_1$ , etc., and the formula is

$$F_{n} - F_{0} = na_{1} + \frac{n(n-1)}{2!}b + \frac{n(n-1)(n-\frac{1}{2})}{3!}c_{1} + \frac{(n+1)n(n-1)(n-2)}{4!}d$$

$$+ \frac{(n+1)n(n-1)(n-2)(n-\frac{1}{2})}{5!}e_{1} + \dots$$

When  $n = \frac{1}{2}$ , or for interpolation to the middle of an interval, the coefficient of  $c_1$  vanishes and  $F_n - F_0$  is independent of third differences, which is clearly a great advantage. In general this method is very advantageous when n approaches one-half, while Stirling's formula is preferred for small values of n.

When Bessel's formula is used for backward interpolation, it may be written

$$F_{-n}-F_0=-na'+\frac{n(n-1)}{2!}\left(\frac{b_0+b'}{2}\right)-\frac{n(n-1)(n-\frac{1}{2})}{3!}c'+\ldots,$$

n being taken as positive.

A distinct method of interpolation is founded directly upon Taylor's theorem. If  $F_0'$   $F_0''$ , etc., are the successive derivatives of  $F_0$ , and  $\omega$  is the constant increment of the argument, this fundamental theorem may be written

$$F_n - F_0 = n \omega F_0' + \frac{n^2 \omega^2 F_0''}{2!} + \frac{n^3 \omega^3 F_0'''}{3!} + \frac{n^4 \omega^4 F_0^{to}}{4!} + \dots \quad (a),$$

and this becomes an interpolation formula when the derivatives are expressed in terms of the differences. This is readily accomplished to any degree of exactness whenever the differences become rigorously or sensibly constant at some particular order and the tabular interval is small relatively to the period of the function. To find the numerical values of the derivatives it is not necessary that the analytical expression of the function should be known; for, rearranging the terms of the formula of Bessel and Stirling according to ascending powers of n and comparing coefficients,

(Bessel.) (Stirling.) 
$$F_0' = \frac{1}{\omega} (a_1 - \frac{1}{2}b + \frac{1}{12}c_1 + \frac{1}{12}d - \frac{1}{120}e_1 - \dots) = \frac{1}{\omega} (a_0 - \frac{1}{6}c_0 + \frac{1}{30}e_0 - \dots)$$

$$F_0'' = \frac{1}{\omega^2} (b - \frac{1}{2}c_1 - \frac{1}{12}d + \frac{1}{24}e_1 + \dots) = \frac{1}{\omega^2} (b_0 - \frac{1}{12}d_0 + \dots)$$

$$F_0''' = \frac{1}{\omega^3} (c_1 - \frac{1}{2}d + 0 \dots) = \frac{1}{\omega^3} (c_0 - \frac{1}{4}e_0 + \dots)$$

$$F_0^{tv} = \frac{1}{\omega^4} (d - \frac{1}{2}e_1 - \dots) = \frac{1}{\omega^4} (d_0 - \dots)$$

$$F_0^{v} = \frac{1}{\omega^5} (e_0 - \dots).$$

Hence, to compute the first derivative, say from Stirling's formula, when the 6th differences and  $\frac{1}{30}$  of the mean of the corresponding third differences are negligible, it is only needful to take the mean of the first differences preceding and following the tabular value of the function, subtract from it one-sixth  $(\frac{1}{6})$  of the mean of the corresponding third differences, and divide the result by  $\omega$ .

Newton's formula gives for arguments near the beginning of the series of tabular values:

$$F_0' = \frac{1}{\omega} \left( a_1 - \frac{1}{2} b_1 + \frac{1}{8} c_2 - \frac{1}{4} d_2 + \frac{1}{8} e_3 - \dots \right)$$

$$F_0'' = \frac{1}{\omega^2} \left( b_1 - c_2 + \frac{11}{12} d_2 - \frac{5}{6} e_3 + \dots \right)$$

$$F_0''' = \frac{1}{2} \left( c_2 - \frac{3}{2} d_2 + \frac{7}{4} e_3 - \dots \right)$$

$$F_0^{4v} = \frac{1}{\omega^4} (d_2 - 2 e_3 + \dots)$$

$$F_0^{e} = \frac{1}{\omega^5} (e_3 - \dots),$$

and for arguments near the end of the series of tabular values,

$$F_0' = \frac{1}{\omega} (a' + \frac{1}{2}b' + \frac{1}{3}c'' + \frac{1}{4}d'' + \frac{1}{5}e''' + \dots)$$

$$F_0'' = \frac{1}{\omega^2} (b' + c'' + \frac{11}{12}d'' + \frac{5}{6}e''' + \dots)$$

$$F_0''' = \frac{1}{\omega^3} (c'' + \frac{3}{2}d'' + \frac{7}{4}e''' + \dots)$$

$$F_0^{iv} = \frac{1}{\omega^4} (d'' + 2e''' + \dots)$$

$$F_0^{v} = \frac{1}{5} (c''' + \dots).$$

The differences of the derivatives may of course be found and discussed in the same manner as those of any other function, and the higher derivatives,  $F_n''$ ,  $F_n'''$ , . . . . . can be expressed in terms of the differences of  $F_n'$ . To distinguish the differences of F' from those of F, they may be denoted by Greek letters, and the notation is exhibited in the following scheme:

Using Stirling's formulæ, page xxxvi, the successive derivatives inclusive of fifth differences are now

$$F_0^{"} = \frac{1}{\omega} (\alpha_0 - \frac{1}{6} \gamma_0); \ F_0^{"} = \frac{1}{\omega^2} (\beta_0 - \frac{1}{12} \delta_0); \ F_0^{to} = \frac{1}{\omega^3} (\gamma_0); F_0^{b} = \frac{1}{\omega^4} (\delta_0);$$

and the interpolation formula may be written

$$F_{n} = F_{0} + n \omega F_{0}^{\gamma} + \frac{n^{2} \omega}{2 \cdot 1} (a_{0} - \frac{1}{6} \gamma_{0}) + \frac{n^{8} \omega}{3 \cdot 1} (\beta_{0} - \frac{1}{12} \delta_{0}) + \frac{n^{4} \omega}{4 \cdot 1} \gamma_{0} + \frac{n^{5} \omega}{5 \cdot 1} \delta_{0};$$
 or, neglecting fifth differences,

$$F_n = F_0 + n \omega \left[ F_0' + \frac{n}{2} \alpha_0 + \frac{n^2}{6} \beta_0 + \frac{n}{12} \left( \frac{n^2}{2} - 1 \right) \gamma_0 \right],$$

and for backward interpolation

$$F_{-n} = F_{\circ} - n \omega \left[ F_{\circ}' - \frac{n}{2} a_{\circ} + \frac{n^2}{6} \beta_{\circ} - \frac{n}{12} \left( \frac{n^2}{2} - 1 \right) \gamma_0 \right].$$

In the tables which follow, the first derivatives multiplied by  $\omega$  are tabulated in units of the last decimal place of the tabulated function (except Table VII), and the remaining quantities required in the computation can be found by mere inspection. The higher order of differences will be needed only for a very few arguments at the beginning or end of those tabular values whose numerical magnitudes approach o or  $\infty$ . For the remaining arguments it will be found that the  $\frac{1}{48}$  part of the second difference of  $\omega F_n'$  is not great enough to influence the result, and it is therefore sufficient to use

$$F_{n} = F_{o} + n \omega (F_{o}' + \frac{n}{2} a_{o})$$

$$F_{-n} = F_{o} - n \omega (F_{o}' - \frac{n}{2} a_{o})$$
(b),

 $\omega a_o$  being the mean first difference of  $\omega F'$  corresponding to  $F_o$ . This formula is rigorous when third differences are zero. In most cases  $\frac{n \omega a_o}{2}$  can be found

mentally, and since  $\omega\left(F_0'+\frac{n}{2}\,a_0\right)$  is here to be regarded as an interpolated value of  $\omega\,F_0'$ , no confusion can arise as to the sign of the correction. It thus becomes almost as easy to include  $\omega\,a_0$  in the computation as to omit it. A convenient rule is: Find by linear interpolation the value  $\omega\,F'$  for one-half the interval  $\left(\frac{n}{2}\right)$ ; multiply this interpolated value by the entire interval (n) and apply the product to the tabular value of the function, either positively or negatively, according as the function is increasing or decreasing. To illustrate the application of this rule, find  $\log_{10} \sinh 0.00304$ . In this case n=0.4 and the table gives

$$F_0 = 7.47712$$
;  $\omega F_0' = 1447.7$ ;  $\omega a_0 = -48.3$ .

the last two quantities being expressed in units of the fifth decimal place. Interpolating  $\omega F'$  linearly for one-half the interval,

$$\omega F'_{n} = \omega (F'_{0} + \frac{n}{2}\alpha_{0}) = 1447.7 - 0.2 \times 48.3 = 1438.0;$$

multiplying this value by n and adding the result to the tabular value of the function, there results

$$F_n = 1438,0 \times 0.4 + 7.47712 = 7.48287.$$

The corresponding difference formula (Bessel's) is

$$F_n = F_0 + n \left[ a_1 - \frac{(1-n)}{2} b \right].$$

The derivative formula (b) with two terms has the advantage of being much more convenient than the difference formula, while the accuracy of the two is the same (five-eighths of a unit) when the derivatives are tabulated to the

same order of decimal as the function. In the case of linear interpolation, however, it is in general more accurate to use the differences, the maximum error of the difference formula being one-half of a unit and that of the derivative formula three-fourths of a unit in the next succeeding decimal place. The accuracy of the two formulas is the same when the next succeeding decimal of the derivative is tabulated. The error of the derivative formula is then simply the error of the tabular value, while the error of the difference formula may be =, > or < than that of the tabular value, but is never greater than one-half of a unit.

Interpolation formulas which are applicable only to a single function are rarely advantageous, because as much time is often consumed in looking them up as is saved by employing them; but some formulas applicable to hyperbolic functions are so simple that when once suggested they can hardly be forgotten. Thus, Taylor's theorem gives at once

$$\cosh (u + n \omega) - \cosh u = n \omega \sinh u + \frac{n^2 \omega^3}{2!} \cosh u + \frac{n^3 \omega^3}{3!} \sinh u + \dots,$$

and the form for the sine is of course similar. Again, when, as here, the cosine is tabulated with an argument in terms of radians,

$$\cos(u + n\omega) - \cos u = -n\omega \sin u - \frac{n^3\omega^3}{2!}\cos u + \frac{n^3\omega^3}{3!}\sin u + \dots,$$
the series for the sine being similar.

So, too,

$$\log_{e} (u + n \omega) - \log_{e} u = \log_{e} \left( \mathbf{1} + \frac{n \omega}{u} \right)$$

$$= \frac{n \omega}{u} - \frac{1}{2} \frac{n^{2} \omega^{2}}{u^{2}} + \frac{1}{3} \frac{n^{3} \omega^{3}}{u^{3}} - \frac{1}{4} \frac{n^{4} \omega^{4}}{u^{4}} + \dots \qquad \left( \frac{n^{2}}{u^{2}} < \mathbf{1} . \right)$$

Simplest of all is the exponential,

$$e^{u+n\omega}-e^{u}=e^{u}\left(e^{n\omega}-1\right)=e^{u}\left(n\omega+\frac{n^{2}\omega^{2}}{2!}+\frac{n^{3}\omega^{3}}{3!}+\ldots\right)\ldots(e),$$

$$=e^{u}\left(+0.01n+0.000,05n^{2}+0.000,000,167n^{3}+\ldots\right),(\omega=0.01)$$

$$=e^{u}\left(+0.001n+0.000,000,5n^{2}+\ldots\right).$$

$$(\omega=0.001)$$

The series in  $n \omega$  may be replaced by h, and this may have any finite value. Especially when a computing machine is available, this formula is easily applied and is, of course, rigorous.

From time to time inverse interpolation by a method more accurate than first differences is called for; indeed, whenever interpolation of a function by higher differences is needful, it is equally needful that the argument corresponding to a given function should be ascertained by a like process. The method ordinarily pursued in such cases is to estimate two values of the argument, one a little greater and the other a little less than that of the required argument, interpolate corresponding values of the function, and finally interpolate linearly over the reduced interval for a final value of the argument.

Another method consists in interpolating values of the function and its derivatives for an approximate value of the required interval and then computing a correction to this approximate value by means of a reversed Taylor's series.<sup>1</sup>

If second differences only are to be taken into account, the usual method of procedure is to estimate an approximate value of n, say n', and with this estimated value we interpolate linearly as before and find the value of  $\omega$   $F'_{n'}$ 

corresponding to one-half of the estimated interval  $\left(\frac{n'}{2}\right)$ . Then the required interval (n) is equal to the difference between the given value and the nearest tabular of the function divided by  $\omega F'_{\frac{n'}{2}}$ . This method is in fact simply the reverse of the one for direct interpolation. A recomputation is of course necessary if the values of n and n' are not practically the same. As an illustration, find u when  $\log_{10} \sinh u = 7.48287$ . We first compute

$$n' = \frac{7.48287 - 7.47712}{1448.0} = 0.4.$$

then the value of  $\omega F'_{\frac{1}{2}}$  in terms of the last tabular unit is found as before

by linear interpolation to be 1438,o. Hence

$$n = \frac{7.48287 - 7.47712}{1438.0} = 0.40 \text{ and } u = 0.00304.$$

Since the estimated and computed values of the interval agree, there is no need of a recomputation.

The methods which are based upon an estimated value of the argument are unsystematic and clumsy. It is much better to use a formula which gives the required result by a direct and rigorous method. To find such a formula, divide Taylor's series (eq. a) by  $\omega F_0'$ , and put

$$n_{1} = \frac{F_{n} - F_{0}}{\omega F_{0}'}; f_{2} = \frac{\omega^{2} F_{0}''}{2 \omega F_{0}'}; f_{3} = \frac{\omega^{3} F_{0}'''}{6 \omega F_{0}'}; f_{4} = \frac{\omega^{4} F_{0}^{iv}}{24 \omega F_{0}'}; f_{5} = \frac{\omega^{5} F_{0}^{v}}{120 \omega F_{0}'};$$

then the interpolation formula may be written

$$n_1 = n + f_2 n^2 + f_3 n^3 + f_4 n^4 + f_5 n^5$$

Reversing this series in accordance with the relation,<sup>2</sup>

$$x = \frac{y}{a_0} + \frac{y^2}{a_0^3} (-a_1) + \frac{y^3}{a_0^5} (-a_0 a_2 + 2 a_1^2)$$

$$+ \frac{y^4}{a_0^7} (-a_0^2 a_3 + 5 a_0 a_1 a_2 - 5 a_1^3)$$

$$+ \frac{y^5}{a_0^9} (-a_0^3 a_4 + 3 a_0^2 (a_2^2 + 2 a_1 a_3) - 21 a_0 a_1^2 a_2 + 14 a_1^4),$$

<sup>1</sup> Rice's Theory and Practice of Interpolation, section 83.

<sup>&</sup>lt;sup>2</sup> Prof. James McMahon: "On the General Term in the Reversion of Series." Bull. Am. Math. Soc., April, 1894.

which is the reversed series of

$$y = a_0 x + a_1 x^2 + a_2 x^3 + a_3 x^4 + a_4 x^5;$$

and rearranging the terms,1

$$n = n_1 + n_1 \left[ -n_1 f_2 + 2 (n_1 f_2)^2 - 5 (n_1 f_2)^3 + 14 (n_1 f_2)^4 + \dots \right]$$

$$+ n_1^2 \left[ n_1 f_3 \left( -1 + 5 (n_1 f_2) - 21 (n_1 f_2)^2 + \dots \right) \right]$$

$$+ n_1^3 \left[ n_1 f_4 \left( -1 + 6 n_1 f_2 \right) + 3 (n_1 f_3)^2 + \dots \right]$$

$$+ n_1^4 \left[ -n_1 f_5 + \dots \right]$$

In the actual computation it is convenient to put

$$r=\frac{n_1}{2\ \omega\ F_0};$$

then, when successive values of  $\omega F_n'$  are tabulated in units of the last decimal place, and Stirling's coefficients are used,

$$n_1 f_2 = r \omega (a_0 - \frac{1}{6} \gamma_0) \qquad n_1 f_3 = \frac{1}{3} r \omega (\beta_0 - \frac{1}{12} \delta_0) n_1 f_4 = \frac{1}{12} r \omega \gamma_0 \qquad n_1 f_5 = \frac{1}{60} r \omega \delta_0.$$

The formula is rigorous inclusive of fifth differences, and does not require the computation of an approximate value of n. It is applicable to any function or series of tabulated values whose successive derivatives become evanescent. It is particularly convenient when differences higher than the second are neglected. The formula then becomes

$$n = n_1 + n_1 \left[ -r \omega \alpha_0 + 2 (r \omega \alpha_0)^2 - 5 (r \omega \alpha_0)^3 + 14 (r \omega \alpha_0)^4 \right].$$

Since  $r \omega a_0$  is a very small quantity, the higher powers are seldom needed, and, should they be required, are easily taken into account. As an example, let it be required to find u when  $\log_{10} \sinh u = 7.48287$ . We compute

$$n_1 = \frac{7.48287 - 7.47712}{1447.7} = 0.40$$

$$r = \frac{n_1}{2 \omega F_0'} = \frac{0.40}{2 \times 1447.7} = 0.0001;$$

and

$$n_1 r \omega \alpha_0 = 0.40 \times 0.0001 \times (-48.3) = 0.00.$$

Hence  $n = n_1 = 0.40$  and u = 0.00304, the same as obtained by the other method.

When  $F_n = e^n$ , it is easily shown, either by means of series (a) or by independent methods, that

$$n \omega = \log (1 + n_1 \omega)$$
 . . . . . . . . . . . . (e),  
 $n = + n_1 - 0.005 n_1^2 + 0.000,033 n_1^3 + \dots$  .  $(\omega = 0.01)$   
 $n = + n_1 - 0.0005 n_1^2 + \dots$  . . . .  $(\omega = 0.001)$ 

These formulæ afford an easy means of finding the natural logarithm of a

<sup>1</sup> See, also, "Inverse Interpolation by Means of a Reversed Series," Phil. Mag., May, 1908.

number from the tabular values of  $e^{\pm u}$ . Thus, to find the natural logarithm of 0.9642102, we compute

$$n_1 = \frac{0.9646403 - 0.9642102}{0.0009646403} = 0.44587.$$

Substituting in the last of the above equations

$$n = 0.44587 - 0.0005 \times (0.45)^2 = 0.44577$$

hence nat log of 0.9642102 = -0.0364458.

One of the most important applications of differences is the detection of errors in values tabulated at equal intervals of the argument. It may be shown by substitution in the schedule of differences (page xxxiv) that an error,  $+\epsilon$ , in  $F_0$  produces errors in the successive differences of any order which are multiples of  $\epsilon$ , the law of distribution of the multiples being that of the corresponding coefficients of the binomial theorem, and the signs of the errors being alternately positive and negative. Since some order of differences of every continuous function must vanish, the presence of an error in a tabular value must ultimately result in producing successive differences of a certain order which alternate in sign. A comparison of these differences with the corresponding binomial coefficients enables one to estimate the magnitude of the error. Thus in the series which follows:

X	X3	$\Delta'$	A" Jin Jin
		andre de la	
13	2197	بيودواني دمراء	
14	2744	547 631	84
15	3375		90 + 2
16	4096	721 819	98 8
17	4915	917	98 + 12
18	5832	-	110 - 8
19	6859	1027	114 + 2
20	8000	1141	120
21	9261	1261	

the alternation in sign occurs in the fourth-order differences, and the numerical values are twice the coefficients of  $(a+b)^4$ . Hence there is an error of +2 units in the value 4915. The corrections -2, +8, -12, +8, -2 applied to the fourth differences causes them to vanish, and the corrections -2, +6, -6, +2 applied to the third differences reduces them to a constant.

This method is particularly useful in detecting large accidental errors in a series of observed values and in estimating their magnitudes.

### DESCRIPTION OF TABLES.

Table I is devoted to 5-place values of the logarithmic hyperbolic sine, cosine, tangent, and cotangent of u expressed in radians. The argument u advances by ten-thousandths from 0 to 0.1, by thousandths from 0.1 to 3.0, and by hundredths from 3.0 to 6.0. In this as in all the tables (except Table VII), instead of the first differences, the first derivatives of the functions multiplied by the tabular interval (w) are tabulated in units of the last decimal place, under the heading  $wF_0'$ . As noted above, this agrees with much of the most authoritative modern practice and facilitates interpolation. It did not appear worth while to extend the tabulation of the table beyond six radians, because higher values are seldom needed; but in Table IV a few very high values of  $e^{\pm w}$  are given, from which in case of need the hyperbolic functions can be found.

In Table II the natural values of the hyperbolic functions are tabulated for the same arguments as in Table I. In some instances the values are given to one or to two places of decimals more than would be obtained by taking the inverse logarithms of the preceding table.

Table III gives  $\sin u = -i \sinh iu$  and  $\cos u = \cosh iu$  with their logarithms to 5 decimal places, the argument u being expressed in radians. The tabulation extends from u = 0.0000 to 0.1000, and from u = 0.100 to 1.600, because  $90^0 = 1.570$  7963 radians; so that, this value of  $\frac{\pi}{2}$  being borne in mind, the table affords the means of finding the sine or cosine of any arc expressed in radians.

Independently of hyperbolic functions, this table is often convenient. It also facilitates the computation of the principal hyperbolic functions of complex variables. Thus

 $\sinh (u \pm iv) = \sinh u \cos v \pm i \cosh u \sin v,$  $\cosh (u \pm iv) = \cosh u \cos v \pm i \sinh u \sin v,$ 

and to compute either of these functions it is only needful to take out two tabulated logarithms from Table III, two from Table I, make two additions, and look out two antilogarithms. It is of course conceivable that all the four quantities involved should be tabulated once for all; but even if u and v advanced only by hundredths, such a table would occupy 200 pages. To find from it functions corresponding to u and v expressed in thousandths would require three interpolations—a process quite as laborious as the use of the tables here given.

Space which would otherwise be vacant is utilized to give the angular values of the radian arguments, or a table of conversion of radians from

0.0000 to 0.1000 and from 0.100 to 1.600 into degrees, minutes, seconds, and hundredths of a second.

Table IV gives the values of  $\log_{10} e^u$ ,  $e^u$  and  $e^{-u}$  to 7 decimal places from u=0.000 to 3.000 and from 3.00 to 6.00. The values of  $e^u$  and  $e^{-u}$  enter into a vast number of equations representing natural phenomena, especially those (as Cournot remarked) which can be classed under the generic denomination of phenomena of absorption or gradual extinction. The ascending and descending exponentials may be regarded at will either as hyperbolic functions or as independent components of hyperbolic functions, since

$$e^{\pm u} = \cosh u \pm \sinh u$$

while, on the other hand,

$$\sinh u = \frac{e^u - e^{-u}}{\sin u}; \cosh u = \frac{e^u + e^{-u}}{\sin u};$$

$$tanh u = \frac{e^u - e^{-u}}{e^u + e^{-u}}; \text{ gd } u = 2 tan^{-1} e^u - \frac{\pi}{2}.$$

It is further evident that a table of  $e^{\pm u}$  is a table of natural antilogarithms. Formula e on page xli affords an easy means of obtaining the natural logarithm of a number from the tabular values of  $e^{\pm u}$ . It is of course unnecessary to give the derivative of  $e^u$ , since this is  $e^u$ , while the derivative  $e^{-u}$  is  $-e^{-u}$ . In general the interpolation or extrapolation of the function is very easy. (See formula e, page xxxix). The logarithm of  $e^{-u}$  is not given because, being merely the arithmetical complement of the  $\log_{10} e^u$ , it can be read off as fast as it can be written down.

In any table of  $\log_{10} e^u$  where the interval of u is  $\omega$ , the difference of successive logarithms is constant and equal to  $\omega \log_{10} e$  or 0.4342 9448  $\omega$ . If the logarithm of  $e^{u+n\omega}$  is required, this will be

$$(u + n\omega) \log_{10} e = \log_{10} e^{u} + n\omega \log_{10} e$$
.

Hence it is practicable to prepare an extended table of proportional parts or a table of  $n\log_{10}e$  which is applicable to any table of  $\log_{10}e^u$  when the tabulated values are multiplied by  $\omega$ . Such an auxiliary table is given at the close of Table IV, in which the argument  $\frac{n}{\omega}$  varies from 0.000 to 0.500. If  $\omega$  is unity, this is merely a 5-place table of  $\log_{10}e^u$ . If, on the other hand,  $\omega$  is 0.001, as in the earlier part of Table IV, the auxiliary table gives the increments corresponding to n to 8 places of decimals. Thus, if  $\log_{10}e^{0.088245}$  is required, Table IV gives  $\log_{10}e^{0.088}=0.0382179$ , the auxiliary table gives for  $\frac{n}{\omega}=0.245$ ,  $n\log_{10}e=0.10640$ ; and since  $\omega=0.001$ ,  $\omega$   $n\log_{10}e=0.0001640$ , which added to  $\log_{10}e^{0.088}$ , gives  $\log_{10}e^{0.088245}=0.0383243$ . In the latter portion of Table IV  $\omega$  is only 0.01; so that, if the  $\log_{10}e^{8.00245}$  is wanted, the main table gives  $\log e^{3.00}=1.3028834$ , and  $\omega$  times  $n\log e$  is 0.0010640; so that the required number is 1.3039474.

When  $\log_{10} e^u$  is required for u > 6.00 the auxiliary table is insufficient to give 7-place values. Then the main table, IV, may be used as an auxiliary table. Thus

$$\log e^{11.088245} = \log e^{11} + \log$$
  
= 4.7772393 + 0.0383243 = 4.8155636.

In the second part of Table IV values of  $e^{\pm u}$  and the logarithms of  $e^{u}$  are given, u varying from 1 to 100. The logarithms are given to 10 decimals; the other functions to 9 significant figures. Such high values are seldom needed, but are included here lest these tables might some times fail the computer.

Table V gives the natural logarithms of numbers from 1 to 1000, with their derivatives to 5 places of decimals. These derivatives are merely the

reciprocals of the arguments, and since  $\log_e\left(\frac{1}{y}\right) = -\log_e y$ , the logarithms

of the derivatives are the tabulated logarithms taken negatively. The table thus gives, in addition to the logarithms of 1000 whole numbers, the logarithms of 1000 proper fractions lying between 0.001 and unity.

The interpolation of natural logarithms is much less simple than is that of common logarithms, and this is the main reason why the latter are preferred for computation. A few simple rules, however, facilitate the needful When the natural logarithm of a vulgar fraction is required it is best to look out the logarithm of both numerator and denominator and If the natural logarithm is required of a fractional number stated decimally and less than 21,000, no attempt should be made to interpolate it directly, because the third differences of the table cannot be neglected for numbers so near the beginning of the table. If the number lies between 10.000 and 21.000, as, for example, 12.345, it should be written 123.45/10, and the required logarithm will be nat log 123.45 - nat log 10. interpolate the first of these between nat log 123 and nat log 124, using the formula for second differences. If the number whose logarithm is to be found lies between 1 and 10, as, for example, 8.2468, it should be written 824.68 / 100, so that the required quantity is nat log 824.68 — nat log 100. The first of these logarithms can be found by using only the mean first differences or the tabulated derivatives between the logarithms of 824 and For values of the argument between 21 and 158 interpolation requires the use of second differences, while above 158 average first differences or the first derivative is sufficiently accurate, inasmuch as the error involved is less than half a unit in the fifth decimal place.

It would be possible to interpolate the negative logarithms of the smaller fractions given by the derivatives—that is, from the reciprocal of 159 on to the end of the table, or for numbers between 0.00628 and 0.00100—but this would not be expedient, because these reciprocals are themselves rounded values. If the natural logarithm of 0.0068352 is wanted as accurately as

the tables will give it, it is best to find the logarithm of 683.52 and to subtract from it the logarithm of 100,000. (See also formula e, page xli.)

The use of second differences may be avoided altogether if the computer chooses, for any number not lying between 158 and 1,000 may be multiplied and divided by another number which will bring the numerator within these limits. Thus, if, as before, nat log 12.345 is required, this number may be written 246.90/20, and the natural logarithm of the numerator found by help of the derivative, less nat log 20, is the required value.

The awkwardness of a table of natural logarithms is inherent and cannot be overcome by any device. It depends on the fact that e and the base of numeration, the number 10, are incommensurable quantities. If our numeration were duodecimal, as it might have been had six fingers to a hand been the rule instead of the exception, 12 would also have been the most convenient base for a table of logarithms. A great table of natural logarithms, such as Barlow's 8-place table of all numbers from 1 to 10,000, is only a little more convenient than that here offered, and with it, too, it is expedient to multiply any small number by a factor such that the product approaches 10,000.

Table VI gives the values of the gudermannian of u to 7 places from u = 0.000 to u = 3.000 and from u = 3.00 to u = 6.00. In this table u is expressed in radians, and gdu both in radians and in angular measure. For theoretical work the gudermannian in radians is usually the more convenient, but for use in finding hyperbolic functions it must be reduced to an angle.

The gudermannian, gd u, is connected with the hyperbolic functions by the following well-known relations:

$$\sinh u = \tan g d u; \cosh u = \sec g d u; \tanh u = \sin g d u$$

$$\tanh \frac{u}{2} = \tan \frac{1}{2} g d u; u = \log_{\theta} \tan \left(\frac{\pi}{4} + \frac{1}{2} g d u\right).$$

Thus Table VI, with the help of a 7-place table of logarithms of the circular functions, gives 7-place values of the hyperbolic functions.

The derivative of gdu is sech u, and can be used independently of the gudermannian.

Table VII is substantially a reversion of Table VI, and gives the antigudermannian in terms of the gudermannian, both, however, being expressed in minutes and decimals of a minute. If m is the antigudermannian expressed in minutes and u the same function expressed in radians,

$$m = 3437.7468 \ u = 3437.7468 \log_e \tan\left(\frac{\pi}{4} + \frac{1}{2} gd \ u\right).$$

Table VII is a table of m, and if m is multiplied by 0.000 2908 8821 the product is u in radians. This table is known to navigators as a table of Meridional Parts for a Spherical Globe. It is frequently of use in the discussion of physical questions and is the very foundation of navigation with Mercator charts. In the more modern works on navigation, however, the

ellipticity of the meridian is allowed for in computing tables of meridional parts, and consequently this table will probably never be reproduced in a navigator. For this reason it is here preserved for computers who are not engaged in navigation.

To test this table, which is borrowed from Inman, 200 of the values, or one in every 27 entries, were compared with Gudermann's 7-decimal place table of the antigudermannian in radian measure. In nearly all cases Inman's last figure was confirmed, but in a few instances the last figure is incorrect by a unit. Inquiry into these cases showed that the maximum error detected was less than 0.006 of a minute. Thus the last figure is not absolutely trustworthy, but is near enough to enable the computer to interpolate accurately to 5 places. If 7 places of the antigudermannian are required, they can be found by inverse interpolation in Table VI.

The earlier part of Table VII may be interpolated by first differences without considerable error. At about 84°30′ one-eighth of the second difference becomes approximately half a unit in the last tabulated place, and beyond this point second differences should be taken into account.

Table VIII is a table for converting radians into angular measure and vice versa. A few numerical constants are appended.

### HISTORICAL NOTE.

The first and most important application of the functions now known as hyperbolic was made by Gerhard Mercator (Kremer) when he issued his map on "Mercator's projection," in 1569, or, as some say, in 1550, while Bowditch gives the date as 1566. To this day substantially all of the deep-sea navigation of the world is carried on by the help of this projection, which has been modified only to the extent of correcting the "meridional parts" for the ellipticity of the meridian. Mercator's problem was to find a projection on which the loxodrome should be a straight line. The solution is unique, and for a spherical globe is  $\lambda = gd \frac{m}{a}$  where  $\lambda$  is the latitude, m the "meridional part," or the ordinate on the projection of a point in latitude  $\lambda$ , and a is the radius of the sphere. Of course, this relation gives

$$\frac{m}{a} = \log_e \tan \left( \frac{\pi}{4} + \frac{\lambda}{2} \right)$$

and this Mercator must have tabulated. He published his map without explanation, however, and it was left to Edward Wright in 1599 to state the formula for m.

"The actual inventor of the hyperbolic trigonometry," says Professor McMahon, "was Vincenzo Riccati, S. J. (Opuscula ad res Phys. et Math. pertinens, Bononiae, 1757). He adopted the notation Sh.  $\phi$ , Ch.  $\phi$ , for the hyperbolic functions and Sc.  $\phi$ , Cc.  $\phi$  for the circular ones. He proved the addition theorem geometically, and derived a construction for the solution of a cubic equation. Soon after Daviet de Foncenex showed how to interchange circular and hyperbolic functions by the use of  $\sqrt{-1}$ , and gave the analogue of de Moivre's theorem, the work resting more on analogy, however, than on clear definition (Reflex. sur les quant. imag., Miscel. Turin Soc., Tom. 1). Johann Heinrich Lambert systematized the subject and gave the serial developments and the exponential expressions. He adopted the notation sinh u, etc., and introduced the transcendent angle, now called the gudermannian, using it in computation and in the construction of tables'."

C. Gudermann published an important memoir on Potential or Cyclic-hyperbolic functions in 1830<sup>2</sup>, followed by extended tables. In recogni-

<sup>&</sup>lt;sup>1</sup> James McMahon, Hyperbolic Functions, p. 71.

<sup>&</sup>lt;sup>2</sup> Crelle's Journal, vols. 6, 7, 8, and 9. These memoirs were afterwards reprinted in a separate volume.

tion of his contributions to the subject, Cayley, in 1862, proposed the name gudermannian for the angle which Lambert called transcendent, and which had been variously designated by others. Among other more recent works on hyperbolic functions are Siegmund Günther's Lehre von den Hyperbelfunctionen, 1881, and Mr. James McMahon's Hyperbolic Functions, 4th edition, 1906.

The first large table of hyperbolic functions we have met with is Legen-

dre's table of 
$$\log \tan \left(\frac{\pi}{4} + \frac{\lambda}{2}\right)$$
 to 12 decimals. The argument advances

by increments of 30 minutes, but five differences are tabulated to facilitate interpolation. Gudermann in 1831 published a table of the same function, using centesimal degrees and advancing by hundredths of a degree  $(0^{\circ}0'32''.4)$  from 0 to an entire quadrant, the function being given to seven decimal places. This was later supplemented by a table advancing by hundredths of a degree from 88° to 100°, the function being given to eleven decimal places. Gudermann also gave a 9-place table of log  $\cosh u$ , log  $\sinh u$ , and  $\log \tanh u$ , from u = 2.000 to u = 5.000, and a 10-place table of the same functions from u = 5.00 to u = 12.00.

In 1862 Z. F. W. Gronau<sup>4</sup> published a 5-place table of hyperbolic functions, the argument being the gudermannian gdu in sexagesimal degrees and minutes. He tabulated to this argument log  $\cosh u$ , log  $\sinh u$ , and the

Briggs logarithm of 
$$\left(\frac{\pi}{4} + \frac{gd u}{2}\right)$$
 instead of the natural logarithms of this

function, following therein a suggestion of Lambert.

In 1890 W. Ligowski issued his Tafeln der Hyperbelfunctionen und der Kreisfunctionen, which is admirably accurate and much the most useful collection of tables of the hyperbolic functions hitherto printed. He filled the gap left by Gudermann by computing log sinh u, log cosh u, and log tanh u from u = 0.000 to 2.000. These he gives to only 5 places, but in addition he tabulates gd u in degrees, minutes, seconds, and decimals of a second. These values are in all cases sufficiently accurate to enable the computer to take out from an ordinary table of logarithms 7-place values of the logarithms of  $\cosh u$ ,  $\sinh u$ , and  $\tanh u$ . The argument ranges from 0.000 to 2.000 and from 2.00 to 6.00 for gd u, while log  $\cosh u$  and  $\log \sinh u$  are carried up to u = 9.00. Ligowski also gives the natural functions  $\cosh u$ ,  $\sinh u$ ,  $\cos u$ , and  $\sin u$  to 6 decimals for values of u in radians from 0.00 to 2.00, the  $\cosh u$  and  $\sinh u$  being continued to u = 8.00. The only fault we can find with Ligowski's tables is that the increments of the argument are sometimes inconveniently large.

<sup>1</sup> Phil. Mag., vol. 24, pt 19.

<sup>&</sup>lt;sup>3</sup> Thus spelled in Cayley's paper.

<sup>&</sup>lt;sup>8</sup> Exercises de Cal. Int., vol. 2, 1816.

Neueste Schriften der Naturforscher-Gesellschaft in Danzig, vol. 6, 1862.

In 1883 F. W. Newman published a 12-place table of the descending exponential from u = 0.000 to u = 15.349, and a 14-place table of the same function advancing by two-thousandths from 15.350 to 17.298 and by five-thousandths from 17.298 to 27.635. In the same volume appeared Mr. J. W. L. Glaisher's tables of the ascending and descending exponential to nine significant figures, with 10-place logarithms. The argument advances by one-thousandth to 0.1; by one-hundredth to 2.00; by one-tenth to 10, and by a single unit to 500.

Mr. A. Forti's Nuove Tavole delle Funzioni Iperboliche were published in 1892. The hyperbolic sines, cosines, and tangents, together with their logarithms, are given to six decimals from 0.0000 to 0.2000, from 0.200 to 2.000, and from 2.00 to 8.00. Frequent errors, however, of one, two, and three units in the last decimal place practically limit these tables to five places. The gudermannian is tabulated in degrees, minutes, seconds, and tenths of a second, and the logarithms of the arguments are given to seven places.

In the volume here presented the first thousand values of  $\log \sinh u$ ,  $\log \cosh u$ , and  $\log \tanh u$  have been computed; the remaining values have been taken from the tables of Gudermann or Ligowski. The values of the natural hyperbolic sines and cosines for values of the argument < 0.1 and of the tangents for arguments > 2.0 have been computed; the remaining values have been taken from the tables of Forti and Ligowski. A recomputation of a great number of the borrowed values was made in order to obtain the required accuracy. The values of  $\coth u$  and  $\log \coth u$  have been computed.

In Table III the sines and cosines were obtained by interpolation from the 7-place values of natural sines and cosines given in Hülsse's Vega, where the argument is expressed in angle. The logarithms of the sines and cosines and the angular equivalents of the arguments have been computed.

In Table IV the values of  $e^{-u}$  are all taken from Newman's great table. Those of  $e^{+u}$  from 0.000 to 0.100 and from 1 to 100 are from Glaisher's table. The remainder we computed, checking the results by Glaisher's table or by reciprocating. It should be noted that the 7-place table of  $e^u$  given in Hülsse's edition of Vega is inaccurate and really amounts to no more than a 5-place table. The logarithms of  $e^u$  were computed independently of the values of  $e^u$ .

Tables V and VIII are borrowed.

The values of  $gd\ u$  in Table VI in terms of angle are taken from Ligowski, excepting the thousand values between u=2.000 and 3.000. These were interpolated from Ligowski's values (2.00 to 3.00) with due checks on his accuracy. In preparing the table of  $gd\ u$  in radians it was necessary for us to make an independent computation of this function from u=0.300 to u=3.000 in order to secure accuracy in the seventh significant figure. The remaining values were derived from Ligowski by converting angles

<sup>&</sup>lt;sup>1</sup>Cambridge Phil. Soc., Trans., vol. 13, 1883.

into radians. A considerable number of his values, however, were tested by independent computation.

Table VII is borrowed from the Nautical tables of James Inman, revised by James W. Inman, London, 1867, with a few small corrections.

Finally, it may be remarked that the derivatives as given in these tables have been computed for them. They are not derived from the differences of the values as printed, but from more extended values, or are computed independently, and the error of the derivatives as well as of the functions is less than one-half of a unit in the next succeeding decimal place.

These tables were prepared in connection with the geophysical work of the United States Geological Survey, and are published with the permission of the Director.

> George F. Becker. C. E. Van Orstrand.

WASHINGTON, D. C., January, 1908.

# TABLE I LOGARITHMS OF HYPERBOLIC FUNCTIONS

0.0000	log sinh u	ω Fo'		1			
0.0000			log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
.2:	∞		0.00000	0,0	∞	∓ ∞	
.0001	6.00000	43429,4	.00000	1	6.00000	43429,4	4.00000
.0002	.30103	21714,7	.00000		.30103	21714,7	3.69897
.0003	.47712	14476,5	.00000	1	.47712	14476,5	.52288
.0004	.60206	10857,4	.00000	1	60206	10857,4	39794
			1		1	1	•39/94
0.0005	6.69897	8685,9	0.00000	0,0	6.69897	8685,9	3.30103
.0006	.77815	7238,2	.00000		.77815	7238,2	.22185
.0007	.84510	6204,2	.00000	1	.84510	6204,2	.15490
.0008	•90309	5428,7	.00000		.90309	5428,7	.09691
.0009	•954 <b>2</b> 4	4825,5	•00000	ļ	.95424	4825,5	.04576
0.0010	7.00000	40400			1	1	
1100.	.04139	4342,9 3948,1	0.00000	0,0	7.00000	4342,9	3.00000
0012	.07918	3619,1	.00000		.04139	3948,1	2.95861
.0013	.11394	3340,7	.00000		.07918	3619,1	.92082
.0014	14613	3102,1	.00000		.11394	3340,7	.88606
	114013	3102,1	.0000		14613	3102,1	.85387
0.0015	7.17600	2895,3	0.00000	0,0	7.17600	2895,3	2 92227
.0016	20412	2714,3	.00000	0,0	.20412		2.82391
.0017	.23045	2554,7	.00000		.23045	2714,3 2554,7	79588
.0018	.25527	2412,7	.00000	i	25527	2412,7	.76955
.0019	.27875	2285,8	.00000		.27875	2285,8	•74473 •72125
			1	4.5	12,0,3	2203,0	./2125
0.0020	7.30103	2171,5	0.00000	0,0	7.30103	2171,5	2.69897
.0021	.32222	2068,1	.00000	1	.32222	2068,1	.67778
.0022	.34242	1974,1	.00000		.34242	1974,1	.65758
.0023	.36173	1888,2	.00000		36173	1888,2	.63827
.0024	.38021	1809,6	.00000	]	.38021	1809,6	.61979
0.0025	7 20704						١
.0026	7.39794	1737,2	0.00000	0,0	7 • 39794	1737,2	2.60206
.0027	•41497 •43136	1670,4 1608,5	.00000		.41497	1670,4	.58503
.0027	.44716	1551,1	.00000		.43136	1608,5	.56864
.0029	46240	1497,6	.00000	1	.44716	1551,0	55284
	140240	1497,0	.00000	1	.46240	1497,6	53760
0.0030	7.47712	1447,7	0.00000	0,0	7.47712	1447,6	2.52288
.0031	.49136	1401,0	.00000	0,0	.49136	1400,9	.50864
.0032	.50515	1357,2	.00000		.50515	1357,2	49485
.0033	.51851	1316,0	.00000		.51851	1316,0	.48149
.0034	.53148	1277,3	.00000		.53148	1277,3	.46852
		•					
0.0035	7.54407	1240,8	0.00000	0,0	7.54407	1240,8	2.45593
.0036	.55630	1206,4	.00000		.55630	1206,4	.44370
.0037	.56820	1173,8	,00000		.56820	1173,8	.43180
.0038	•57978	1142,9	.00000		-57978	1142,9	.42022
.0039	.59107	1113,6	.00000		.59106	1113,6	.40894
0.0040	7.60206	1085,7	0.00000	~~	m 60006	T00	
.0041	.61279	1059,3	.00000	0,0	7.60206	1085,7	2.39794
0042	.62325	1034,0	.00000		.61278 .62325	1059,2	.38722
.0043	.63347	1010,0	.00000		63347	1034,0	.37675 .36653
.0044	.64345	987,0	.00000		.64345	987,0	.35655
it l	. 1				1	307,0	-33033
0.0045	7.65321	965,1	0.00000	0,0	7.65321	965,1	2.34679
.0046	.66276	944,1	.00000		.66275	944,1	33725
.0047	.67210	924,0	.00000	j	.67200	924,0	.32791
.0048	.68124	904,8	.00001	1	.68124	904,8	.31876
.0049	.69020	886,3	.00001		.69019	886,3	.30981
0.0050	7.69897	868,6	0.0007		m 6000=	060	
	7.0909/		100001	0,0	7.69897	868,6	2.30103
u lo	g tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gđ u
	TABLES					· ]	

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0050	7.69897	868,6	0.00001	0,0	7.69897	868,6	2.30103
.0051	.70757	851,6	100001	-,0	.70757	851,5	29243
.0052	71601	835,2	.00001	17 19 19 E	.71600	835,2	28400
.0053	72428	819,4	.00001	Park sa	.72427	819,4	.27573
.0054	.73240	804,3	.00001	and The second	.73239	804,2	.26761
0.0055	7.74036	789,6	0.00001	0,0	7.74036	789,6	2.25964
.0056	.74819	775,5	.00001		.74818	775,5	.25182
.0057	.75588	761,9	.00001		75587	761,9	.24413
.0058	.76343	748,8	.00001		.76342	748,8	.23658
.0059	.77085	736,1	.00001	10 mm s 12 mm s	.77085	736,1	.22915
0.0060	7.77815	723,8	0.00001	0,0	7.77815	723,8	2.22185
<b>.00</b> 61	.78533	712,0	100001		.78532	711,9	.21468
.0062	.79239	700,5	100001		.79239	700,5	.20761
.0063	·79934	689,4	100001		•79933	689,3	.20067
.0064	.80618	678,6	100001		.80617	678,6	.19383
0.0065	7.81292	668,1	0.00001	0,0	7.81291	668,1	2.18709
.0066	.81955	658,0	100001		.81954	6 <b>58,</b> 0	.18046
.0067	.82608	648,2	100001		.82607	648,2	17393
.0068	.83251	638,7	100001		.83250	6 <b>38,</b> 6	.16750
.0069	.83885	629,4	100001		.83884	629,4	<b>.1</b> 6116
0.0070	7.84510	620,4	0.00001	0,0	7.84509	620,4	2.15491
.0071	.85126	611,7	100001		85125	611.7	.14875
.0072	.85734	603,2	.00001		.85732	603,2	.14268
.0073	.86333	594,9	100001		.86332	594,9	.13668
.0074	.86924	586,9	100001		.86922	586,9	.13078
0.0075	7.87507	5 <b>7</b> 9,1	0.00001	0,0	7.87505	579,0	2.12495
<b>.0</b> 076	.88082	571,4	100001		.88081	571,4	.11919
.0077	.88649	564,0	100001		.88648	564,0	.11352
.0078	.89210	556,8	100001	·	.89209	556,8	. 10791
.0079	.89763	549.7	.00001	Same A. Markey Matter Springs	.89762	549.7	.10238
0.0080	7.90309	542,9	0.00001	0,0	7.90308	542,8	2.09592
.0081	.90849	536,2	.00001		.90848	536,1	09152
.0082	.91382	529,6	100001	200 Det	.91380	529,6	-08620
.0083	.91908	523,2	.00001		.91907	523,2	.08093
.0084	.92428	517,0	.00002		.92427	517,0	.07573
0.0085	7.92942	510,9	0.00002	0,0	7.92941	510,9	2.07059
.0086	•93450	505,0	.00002		93449	505,0	.06551
.0087	.93952	499,2	.00002		.93951	499,2	• <b>0</b> 6049
.0088	94449	493,5	.00002		•94447	493,5	.05553
.0089	94940	488,0	.00002	Les kalage	•94938	487,9	05062
0.0000	7.95425	482,6	0.00002	0,0	7.95423	482,5	2.04577
10001	.95905	477,3	.00002		.95903	477,2	.04097
.0092	.96379	472,1	.00002		.96378	472,0	.03622
.0093	.96849	467,0	.00002	al distan	96847	467,0	.03153
.0094	.97313	462,0	.00002		.97312	462,0	.02688
0.0095	7.97773	457,2	0.00002	0,0	7.97771	457,1	2.02229
.0096	.98228	452,4	.00002		.98226	452,4	.01774
.0097	.98678	447,7	.00002	Province and the	.98676	447,7	.01324
.0098	.99123	443,2	.00002	K parti	.99121	443,1	.00879
.0099	.99564	438,7	.00002		.99562	438,7	.00438
0.0100	8.00001	434,3	0.00002	0,0	7.99999	434,3	2.00001
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω Fo'	log sin gd u	ω <b>F</b> <sub>0</sub> ′	log csc gd u

		Logani	hms of Hy	perpone	r unctions.		nostalionema. Table promissi
u	log sinh u	ω Fo'	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0100	8.00001	434,3	0.00002	0,0	7.99999	434,3	2.00001
.oioi	.00433	430,0	.00002		8.00431	430,0	1.99569
.0102	.00861	425,8	.00002		00859	425,7	.99141
.0103	.01284	421,7	.00002		.01282	421,6	98718
.0104	.01704	417,6	.00002		01702	417,6	.98298
0.0105	8.02120	413,6	0.00002	0,0	8.02117	413,6	1.97883
.0106	.02531	409,7	.00002	-,-	.02529	409,7	.97471
.0107	.02939	405,9	.00002		.02937	405,9	97063
.0108	03343	402,I	.00003			402,I	.96659
0100	.03744	398,5	.00003		.0334I .0374I	398,4	.96259
0.0110	8.04140	394,8	0.00003	0,0	8.04138	394,8	1.95862
.0110	.04533	391,3	.00003	0,0	.04531	391,2	95469
.0112		387,8	.00003		.04531	387,7	.95080
	.04923			11.0		30/,/	
.0113	.05309	384,4 381,0	.00003		.05306 .05689	384,3 380,9	.94694 .94311
0.0115	8.06071	377,7	0.00003	0,0	8.06068	377,6	1.93932
.0116	.06447	374,4	.00003	0,0	.06444	377,0	.93556
	.06820		-	0,1			
.0117		371,2	.00003		.06817	371,2	.93183
.0118	.07189	368,1	.00003		.07186	368,0	.92814
.0119	.07556	365,0	.00003	-	.07553	364,9	.92447
0.0120	8.07919	361,9	0.00003	0,1	8.07916	361,9	1.92084
.0121	.08280	358,9	.00003		:08276	358,9	.91724
.0122	.08637	356,0	.00003		.08634	355,9	.91366
.0123	.08992	353,1	.00003		.08988	353,0	.91012
.0124	.09343	350,3	.00003	1	.09340	350,2	.90660
0.0125	8.09692	347,5	0.00003	0,1	8.09689	347,4	1.90311
.0126	.10038	344,7	.00003		.10035	344,6	.89965
.0127	.10382	342,0	.00004		.10378	341,9	.89622
.0128	.10722	339,3	.00004		.10719	339,3	.89281
.0129	.11060	336,7	.00004		.11057	336,6	.88943
0.0130	8.11396	334,1	0.00004	0,1	8.11392	334,0	1.88608
.0131	11728	331,5	.00004		.11725	331,5	.88275
.0132	12059	329,0	.00004		.12055	329,0	.87945
.0133	.12386	326,6	.00004		. 12383	326,5	.87617
.0134	.12712	324,1	.00004		.12708	324,1	.87292
0.0135	8.13035	321,7	0.00004	0,1	8.13031	331,7	1.86969
.0136	.13355	319,4	.00004	-,-	.13351	319,3	<b>.8</b> 6649
.0137	13673	317,0	.00004		.13669	317,0	.86331
.0138	13989	314,7	.00004	-	.13985	314,7	.86015
.0139	.14303	312,5	.00004		14299	312,4	.85701
0.0140	8.14614	310,2	0.00004	0,1	8.14610	310,2	1.85390
.0141	.14923	308,0	.00004	-,-	.14919	308,0	.85081
.0142	.15230	305,9	.00004	ľ	.15226	305,8	.84774
.0142	.15535	303,7	.00004	1	15531	303,7	.84469
.0144	.15838	301,6	.00005		.15833	301,6	.84167
0.0145	8.16138	299,5	0.00005	0,1	8.16134	299,5	1.83866
.0146	.16437	297,5	.00005	-	.16432	297,4	.83568
.0140	.16733	295,5	.00005		16729	295,4	83271
	.10/33		.00005		17023	293,4	82977
.0148 .0149	.17320	293,5 291,5	.00005		.17315	293,4	.82685
0.0150	8.17611	289,6	0.00005	0,1	8.17606	289,5	1.82394

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0150	8.17611	289,6	0.00005	0,1	8.17606	289,5	1.82394
.0151	.17899	287,6	.00005		.17894	287,6	.82106
.0152	.18186	285,7	.00005	the Market St.	18181	285,7	.81819
.0153	.18471	283,9	.00005		. 18466	283,8	.81534
.0154	.18754	282,0	.00005	380	. 18749	282,0	.81251
0.0155	8.19035	280,2	0.00005	0,1	8.19030	280,1	1.80970
.0156	.19314	278,4 276,6	.00005		.19309	278,3 276,6	.80691
.0157 .0158	.19592	274,9	.00005		.19862	274,8	.80414 .80138
.0159	.20142	273,2	.00005		.20136	273,1	.79864
0.0160	8.20414	271,5	0.00006	0,1	8,20408	271,4	1.79592
.0161	.20684	269,8	.00006		.20679	269,7	.79321
.0162	.20953	268,1	.00006		.20948	268,0	.79052
.0163	.21221	266,5	• <b>.0000</b> 6	10 mm	.21215	266,4	.78785
.0164	.21486	<b>2</b> 64 <b>,</b> 8	<b>,0000</b> 5		.21480	264,8	.78520
0.0165	8.21750	263,2	0.00006	0,1	8.21744	263,2	1.78256
.0166	.22013	261,6	.00006	Ì	.22007	261,6	·77993
.0167	.22274	260,1	.00006		.22268	260,0	.77732
.0168 .0169	.22533	258,5	00006		.22527	258,5	•77473
.0109	.22791	257,0	.00006		.22785	256,9	.77215
0.0170	8.23047	255,5	0.00006	0,1	8.23041	255,4	1.76959
.0171	.23302	254,0	.00006		.23295	253,9	.76705
.0172	.23555	252,5	.00006		-23549	252,4	.76451
.0173	.23807	251,1	.00005		-23800	251,0	76200
.0174	.24057	249,6	.00007		.24051	249,5	· <b>7</b> 5949
0.0175	8.24306	248,2	0.00007	0,1	8.24299	248,1	1.75701
.0176	.24554	246,8	.00007		.24547	246,7	•75453
.0177	24800	245,4	.00007		.24793 .25037	245,3	.75207
.0178 .0179	.25044 .25288	244,0 242,6	.00007		.25281	243,9 242,6	.74963 .74719
					_		
0.0180	8.25530	241,3	0.00007	0,1	8.25523	241,2	1.74477
.0181	.25770	240,0	.00007		.25763	239,9	.74237
.0182	.26010	238,6	.00007		.26002 .26240	238,6	.73998
.0183	. 26248 . 26484	237,3 236,1	.00007		.26477	237,3 236,0	.73760 .73523
0.0185	8.26720	234,8	0.00007	0,1	8.26712	234,7	1.73288
.0186	. 26954	233,5	.00008	, ,,,	.26946	233,4	.73054
.0187	.27187	232,3	.00008	1	.27179	232,2	.72821
.0188	.27418	231,0	80000		.27411	231,0	.72589
.0189	.27649	229,8	.00008		.27641	229,7	.72359
0.0190	8.27878	228,6	0.00008	0,1	8.27870	228,5	1.72130
.0191	.28106	227,4	.00008		.28098	227,3	.71902
.0192	.28333	226,2	80000		.28325	226,1	.71675
.0193	.28558	225,1	.00008		.28550	225,0	.71450
.0194	.28783	223,9	80000		.28775	223,8	.71225
0.0195	8.29006	222,7	0.00008	0,1	8.28998	222,7	1.71002
.0196	.29228	221,6	.00008		.29220	221,5	,70780
.0197	.29449	220,5	.00008		.29441	220,4	70559
.0198	.29669 .29888	219,4	.00009	Mariana Gu	.29661 .29880	219,3 218,2	•70339
.0199	reconstitute, to	218,3	•00009	gr/m/ar			.70120
0.0200	8.30106	217,2	0.00009	0,1	8.30097	217,1	1.69903
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω <b>F</b> <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> '	log tanh u	ω F <sub>0</sub> '	log coth
0.0200	8.30106	217,2	0.00009	0,1	8.30097	217,1	1.6990
.0201	.30323	216,1	.00000		.303.14	216,0	.6968
.0202	.30538	215,0	.00009		.30529	214,9	.6947
.0203 .0204	.30753 .30966	214,0 212,9	.00009		30744	213,9 212,8	.6925 .6904
0.0205	8.31178	211,9	0.00009	0,1	8.31169	211,8	1.6883
.0206	.31390	210,9	.00009		.31381	210,8	.6861
.0207	.31600	209,8 208,8	.00009		.31591	209,7 208,7	.6840 .6820
.0209	.32018	207,8	.00009		32008	207,7	.6799
0.0210	8.32225	206,8	0.00010	0,1	8.32216	206,7	1.6778
.0211	32431	205,9	01000.		.32422	205,8	.6757
.0212	.32637 .32841	204,9 203,9	.00010		.32627	204,8 203,8	.6737 .6716
.0214	.33045	203,0	.00010		.33035	202,9	.6696
0.0215	8.33247	202,0	0.00010	0,1	8.33237	201,9	1.6676
.0216 .0217	•33449 •33649	201,1 200,2	.00010		•33439	201,0 200,1	.6656 .6636
.0218	33849	199,2	.00010		.33639	199,2	.6616
.0219	.34048	198,3	.00010		.34037	198,2	.6596
0.0220	8.34246	197,4	0.00011	0,1	8.34235	197,3	1.6576
.0221	·34443 ·34639	196,5	11000.		.34432 .34628	196,4 195,6	.6556 .6537
.0223	.34834	19 <b>5,7</b> 194,8	11000		.34823	193,0	.6517
.0224	.35028	193,9	.00011	1	.35018	193,8	.6498
0.0225	8.35222	193,1 192,2	11000.0	0,1	8.35211	193,0	1.6478
.0227	.35415	192,2	11000.		.35403 .35595	192,1 191,3	.6459 .6440
.0228	•35797	190,5	.00011		35786	190,4	.6421
.0229	.35987	189,7	.00011		.35976	189,6	.6402
0.0230	8.36177 .36365	188,9	0.00011	0,1	8.36165	188,8 187,9	1.6383
.0231	36553	187,2	.00012		.36353	187,1	.6364 .6345
.0233	.36740	186,4	.00012		.36728	186,3	.6327
.0234	.36926	185,6	.00012		.36914	185,5	.6308
0.0235	8.37111	184,8 184,1	0.00012	. 0,1	8.37099	184,7 184,0	1.6290 .6271
.0236	·37295 ·37479	183,3	.00012		.37283	183,2	.6253
.0238	.37662	182,5	.00012		.37649	182,4	.6235
.0239	.37844	181,7	.00012	:	.37832	181,6	.6216
0.0240	8.38025 .38206	181,0 180,2	0.00013	0,1	8.38013	180,9	1.6198 .6180
.0241	.38386	179,5	.00013		.38193 .38373	180,1 179,4	.6162
.0243	.38565	178,8	.00013		.38552	178,7	.6144
.0244	.38743	178,0	.00013	* 1.0 1.0	.38730	177,9	.6127
0.0245 .0246	8.38921	177,3	0.00013	0,1	8.38908	177,2	1.6109
.0240	.39098 .39274	176,6 175,9	.00013		.39085 .39261	176,5 175,8	.6091 .6073
.0248	39450	175,2	.00013		39436	175,0	.6056
.0249	.39624	174,5	.00013	1 1 1 1 1	.39611	174,3	.6038
0.0250	8.39799	173,8	0.00014	O.I	8,39785	173,6	1.6021
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd

u. T	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth i
0.0250	8.39799	173,8	0.00014	0,1	8.39785	173,6	1.6021
.0251	39972	173,1	.00014	-,-	.39958	173,0	.6004
.0252			,00014		.40131	172,3	.5986
	.40145	172,4	.00014				
.0253	.40317	171,7			.40303	171,6	.5969
.0254	.40488	171,0	.00014		•404 <b>7</b> 4	170,9	•5952
0,0255	8.40659	170,3	0.00014	0,1	8.40645	170,2	1.5935
.0256	.40829	169,7	.00014		.40815	169,6	.5918
.0257	.40998	169,0	.00014		40984	168,9	5901
.0258	.41167	168,4	.00014		.41152	168,3	. 5884
.0259	.41335	167,7	.00015		.41320	167,6	.5868
0.0260	8.41502	167,1	0.00015	0,1	8.41488	167,0	1.585
.0261	.41669	166,4	.00015		.41654	166,3	.5834
.0262	.41835	165,8	.00015		.41820	165,7	.5818
.0263	.42001	165,2	.00015		.41986	165,1	.5801
.0264	.42165	164,5	.00015		.42150	164,4	.578
0.0265	8.42330	163,9	0.00015	0,1	8.42314	163,8	1.5768
.0266	.42493	163,3	.00015		.42478	163,2	•575
.0267	.42656	162,7	.00015		.42641	162.6	•5735
.0268	.42819	162,1	.00016		.42803	162,0	.5719
0269	.42980	161,5	.00016		.42965	161,4	.570
0.0270	8.43142	160,9	0.00016	0,1	8.43126	160,8	1.5682
.0271	.43302	160,3	.00016		.43286	160,2	.567
.0272	.43462	159,7	.00016		.43446	159,6	. 5655
.0273	.43622	159,1	.00016		43605	159,0	.5639
.0274	.43780	158,5	.00016		.43764	158,4	.562
	PATE .					THE PARTY	
0.0275	8.43939 .44096	158,0 157,4	0.00016 .00017	0,1	8.43922 .44080	157,8 157,3	1.560) 559
		156,8	.00017			+3/,3 +-6 =	
.0277	.44254			- '	•44237	156,7	•5576
0278	.44410	156,3	.00017		•44393	156,1	.550
.0279	.44566	155,7	.00017	-1 Y	•44549	155,6	• 554:
0.0280	8.44721	155,1	0.00017	0,1	8.44704	155,0	1.5529
.0281	.44876	154,6	.00017		.44859	154,5	.551
.0282	.45031	154,0	.00017		.45013	153,9	• 549
.0283	.45184	153,5	.00017		.45167	153,4	.548
.0284	.45338	153,0	.00018		.45320	152,8	.5468
0.0285	8.45490	152,4	0.00018	0,1	8.45473	152,3	1.545
.0286	.45643	151,9	.00018		.45625	151,8	• 5432
.0287	•45794	151,4	.00018		·45776	151,2	.5422
.0288	•45945	150,8	.00018		45927	150,7	.540
.0289	.46096	150,3	.00018	. 1	.46078	150,2	•539
0.0290	8.46246	149,8	0,00018	0,1	8.46228	149,7	1.537
.0291	.46395	149,3	.00018		.46377	149,2	.536
.0292	46544	148,8	.00019		46526	148,6	• 5342
.0293	.46693	148,3	.00019		.46674	148,1	• 533
.0294	.46841	147,8	.00019		.46822	147,6	.531
0.0295	8.46989	147,3	0.00019	0,1	8.46970	147,1	1.530
.0296	.47136	146,8	.00019	-,-	.47116	146,6	.528
.0297	.47282	146,3	.00019		.47263	146,1	.527
.0298	.47428	145,8	.00019		.47409	145,7	.5259
.0290	•47574	I45,3	.00019		•47554	145,2	.524
0.0300	8.47719	144,8	0.00020	0,1	8.47699	144,7	1.523
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F₀'	log csc g

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
\ <u> </u>				• 0	_ عنبند بحيد		ioy com u
0.0300	8.47719	144,8	0.00020	0,1	8.47699	144,7	1.52301
.0301	.47863	144,3	.00020		.47844	144,2	.52156
0302	48007	143,8	.00020		.47987	143,7	.52013
.0303	.48151	143,4	.00020		.48131	143,2	.51869
.0304	.48294	142,9	.00020		.48274	142,8	.51726
0.0305	8.48437	142,4	0.00020	0,1	8.48417	142,3	1.51583
.0306	.48579	142,0	.00020		48559	141,8	.51441
.0307	.48721	141,5	.00020		.48700	141,4	.51300
.0308	.48862	141,0	.00021		.48841	140,9	.51159
.0309	.49003	140,6	.00021		.48982	140,5	.51018
0.0310	8.49143	140,1	0.00021	0,1	8.49122	140,0	1.50878
.0311	.49283	139,7	.00021	-	.49262	139,6	.50738
.0312	.49423	139,2	.00021		.49401	139,1	50599
.0313	.49562	138,8	.00021		.49540	138,7	.50460
.0314	49700	138,4	.00021		.49679	138,2	.50321
0.0315	8.49838	137,9	0.00022	0,1	8.49817	137,8	1.50183
.0316	49976	137,5	.00022	-,,,	49954	137,3	.50046
.0317	.50113	137,0	.00022		.50091	136,9	49909
.0318	.50250	136,6	.00022		.50228	136,5	49772
.0319	.50386	136,2	.00022		.50364	136,1	.49636
0.0320	8.50522	135,8	0.00022	0,1	8.50500	135,6	1.49500
.0321	.50658	135,3	.00022	- '	.50636	135,2	.49364
.0322	50793	134,9	.00023		.50771	134,8	.49229
.0323	.50928	134,5	.00023		.50905	134,4	49095
.0323	.51062	134,1	.00023		.51039	133,9	.48961
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0.0325	8.51196	133,7	0.00023	0,1	8.51173	133,5	1.48827
.0326	.51329	133,3	.00023		.51306	133,1	.48694
.0327	.51463	132,9	.00023		.51439	132,7	.48561
.0328	.51595	132,5	,00023		.51572	132,3	.48428
.0329	.51727	132,1	.00023		.51704	131,9	.48296
0.0330	8.51859	131,7	0.00024	0,1	8.51836	131,5	1.48164
.0331	.51991	131,3	.00024		.51967	131,1	48033
.0332	.52122	130,9	.00024		.52098	130,7	.47902
.0333	.52252	130,5	.00024		.52228	130,3	.47772
.0334	. 52383	130,1	.00024		.52358	129,9	.47642
0.0335	8.52513	129,7	0 00024	0,1	8.52488	129,5	1.47512
.0336	.52642	129,3	.00025		.52618	129,2	47382
.0337	.52771	128,9	.00025		.52747	128,8	.47253
.0338	.52900	128,5	.00025		.52875	128,4	.47125
.0339	.53028	128,2	.00025		.53003	128,0	.46997
0.0340	8.53156	127,8	0.00025	0,1	8.53131	127,6	1.46869
.0341	.53284	127,4	.00025	-	.53259	127,3	.46741
.0342	.53411	127,0	.00025		.53386	126,9	.46614
.0343	.53538	126,7	.00026		.53512	126,5	.46488
.0344	.53664	126,3	<b>,</b> 00026		.53639	126,1	.46361
0.0345	8.53791	125,9	0.00026	0,1	8.53765	125,8	1.46235
.0346	53916	125,6	.00026	0,2	.53890	125,4	.46110
.0347	.54042	125,2	.00026		.54016	125,1	.45984
.0348	.54167	124,8	.00026		.54140	124,7	.45860
.0349	.54291	124,5	.00026		.54265	124,3	•45735
0.0350	8.54416	124,1	0.00027	0,2	8.54389	124,0	1.45611
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

u	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0350	8.54416	124,1	0.00027	0,2	8.54389	124,0	1.45611
.0351	.54540	123,8	.00027	1	-54513	123,6	.45487
.0352	.54663	123,4	.00027		.54636	123,3	.45364
.0353	.54786	123,1	.00027	1	54759	122,9	.45241
.0354	.54909	122,7	.00027		54882	122,6	.45118
0.0355	8.55032	122,4	0.00027	0,2	8.55005	122,2	1.44995
.0356	•55154	122,0	.00028		.55127	121,9	.44873
.0357	.55276	121,7	.00028		.55248	121,5	.44752
.0358	-55398	121,4	.00028		.55370	121,2	.44630
.0359	-55519	121,0	.00028	1	•55491	120,9	.44509
0.0360	8.55640	120,7	0.00028	0,2	8.55611	120,5	1.44389
.0361	.55760	120,4	.00028		-55732	120,2	.44268
.0362	.55880	120,0	.00028		.55852	119,9	.44148
.0363	.56000	119,7	.00029	<b>!</b>	•55972	119,5	.44028
.0364	.56120	119,4	.00029		.56091	119,2	.43909
0.0365	8.56239	119,0	0.00029	0,2	8.56210	118,9	1.43790
.0366	.56358	118,7	.00029		.56329	118,6	.43671
.0367	.56476	118,4	.00029		.56447	118,2	•43553
.0368	-56595	118,1	.00029		.56565	117,9	•43435
.0369	.56712	117,7	.00030		.56683	117,6	.43317
0.0370	8.56830	117,4	0.00030	0,2	8.56800	117,3	1.43200
.0371	.56947	117,1	.00030	)	.56917	117,0	.43083
.0372	57064	116,8	.00030		.57034	116,6	.42966
.0373	.57181	116,5	.00030		.57151	116,3	.42849
.0374	57297	116,2	.00030		.57267	116,0	.42733
0.0375	8.57413	115,9	0.00031	0,2	8.57383	115,7	1.42617
.0376	.57529	115,6	.00031	-,	57498	115,4	.42502
.0377	.57644	115,3	.00031		.57614	115,1	.42386
.0378	57760	114,9	.00031		.57729	114,8	.42271
.0379	.57874	114,6	.00031		57843	114,5	.42271 .42157
0.0380	8.57989	114,3	0.00031	0,2	8.57957	114,2	1.42043
.0381	.58103	114,0	.00032		58071	113,9	41929
0382	.58217	113,7	.00032		.58185	113,6	.41815
.0383	.58330	113,4	.00032	-	. 58299	113,3	.41701
.0384	- 58444	113,2	.00032		.58412	113,0	.41588
0.0385	8.58557	112,9	0.00032	0,2	8.58525	112,7	1.41475
.0386	. 58670	112,6	.00032		.58637	112,4	.41363
.0387	.58782	112,3	.00033		. 58749	112,1	.41251
.0388	. 58894	112,0	.00033		.58861	111,8	.41139
.0389	.59006	111,7	.00033	•	. 58973	111,5	.41027
0.0390	8.59117	111,4	0.00033	0,2	8.59084	111,2	1,40916
.0391	.59229	111,1	.00033		.59196	111,0	.40804
.0392	.59340	110,8	.00033		. 59306	110,7	.40694
.0393	.59450	110,6	.00034		.59417	110,4	.40583
.0394	. 59561	110,3	.00034	,	•59527	110,1	.40473
0.0395	8.59671	110,0	0.00034	0,2	8.59637	109,8	1.40363
.0396	.59781	109,7	.00034		-59747	109,6	.40253
.0397	. 59890	109,5	.00034		.59856	109,3	.40144
.0398	.60000	109,2	.00034		.59965	109,0	.40035
.0399	.60109	108,9	.00035		60074	108,7	.39926
0.0400	8.60218	108,6	0.00035	0,2	8.60183	108,5	1.39817
u 🕬	log tan gd u	ω F <sub>0</sub> ′	log sec gđ u	ω Fo'	log sin gđ u	ω <b>F</b> ₀′	log ese gd u

0.0400 80401 .0402 .0403 .0404 .0405 .0406 .0407 .0408 .0409 .0.0418 .0414 .0.0417 .0418 .0419 .0.0420 .0421 .0422 .0423 .0424 .0424 .0423 .0424 .0423 .0424 .0423 .0424 .0423 .0424 .0423 .0424 .0427 .0428 .0429 .0428 .0429 .0428 .0429 .0428 .0429 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0436 .0437 .0438 .0439 .0439 .00440 .88.	.60218 .60326 .60326 .60434 .60542 .60650 .60757 .60865 .60971 .61078 .61184	108,6 108,4 108,1 107,8 107,6 107,3 107,0 106,8	0.00035 .00035 .00035 .00035 .00035	ω F <sub>0</sub> '	8.60183 .60291 .60399	ω F <sub>0</sub> ' 108,5 108,2	log coth u
.0401 .0402 .0403 .0404 .0.0405 .0.0405 .0.0407 .0.0409 .0.0410 .0.0412 .0.0413 .0.0414 .0.0415 .0.0415 .0.0416 .0.0417 .0.0418 .0.0419 .0.0420 .0.0421 .0.0421 .0.0422 .0.0423 .0.0424 .0.0425 .0.0426 .0.0426 .0.0427 .0.0428 .0.0430 .0.0431 .0.0431 .0.0431 .0.0432 .0.0431 .0.0432 .0.0433 .0.0434 .0.0435 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443 .0.0442 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443 .0.0442	.60326 .60434 .60542 .60650 .60757 .60865 .60971 .61078 .61184	108,4 108,1 107,8 107,6 107,3 107,0 106,8	.00035 .00035 .00035 .00035	0,2	.60291 .60399		1.20817
.0401 .0402 .0403 .0404 .0.0405 .0.0405 .0.0407 .0.0409 .0.0410 .0.0412 .0.0413 .0.0414 .0.0415 .0.0415 .0.0416 .0.0417 .0.0418 .0.0419 .0.0420 .0.0421 .0.0421 .0.0422 .0.0423 .0.0424 .0.0425 .0.0426 .0.0426 .0.0427 .0.0428 .0.0430 .0.0431 .0.0431 .0.0431 .0.0432 .0.0431 .0.0432 .0.0433 .0.0434 .0.0435 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443 .0.0442 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443 .0.0442	.60326 .60434 .60542 .60650 .60757 .60865 .60971 .61078 .61184	108,4 108,1 107,8 107,6 107,3 107,0 106,8	.00035 .00035 .00035 .00035	,,,	.60291 .60399		
.0402 .0403 .0404 .0405 .0406 .0407 .0408 .0409 .0410 .0411 .0412 .0413 .0414 .0417 .0418 .0419 .0419 .0422 .0423 .0421 .0422 .0423 .0424 .0426 .0426 .0427 .0428 .0429 .0431 .0432 .0433 .0434 .0431 .0432 .0433 .0434 .0436 .0437 .0438 .0439 .0438 .0439 .0438 .0439 .0431 .0432 .0433 .0434 .0433 .0434 .0434 .0434 .0434 .0434 .0436 .0437 .0438 .0439 .0436 .0437 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0444 .0443 .0444 .0444 .0444	.60434 .60542 .60650 .60757 .60865 .60971 .61078 .61184	108,1 107,8 107,6 107,3 107,0 106,8	.00035 .00035 .00035		.60399	100,2	39709
.0403 .0404 .0.0405 .0406 .0407 .0408 .0409 .0.0410 .0411 .0412 .0413 .0414 .0417 .0418 .0419 .0419 .0422 .0423 .0421 .0422 .0423 .0424 .0426 .0426 .0427 .0428 .0429 .0431 .0433 .0434 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0440 .0441 .0443	.60542 .60650 .60757 .60865 .60971 .61078 .61184	107,8 107,6 107,3 107,0 106,8	.00035 .00035 0.00036			107,9	.39601
.040404040405 8040604070408040904110412041304140415 8041604170418041904210422042304240425 8042604270428042904290431043204310432043304340435 804360437043804390440 8044104420443	.60650 .60757 .60865 .60971 .61078 .61184	107,6 107,3 107,0 106,8	.00035 0.00036		. 60507		
0.0405 80406 .0407 .0408 .0409 .00411 .0412 .0413 .0414 .00417 .0418 .0419 .00425 80421 .0423 .0424 .00425 .0423 .0424 .00425 .0423 .0433 .0434 .00435 80436 .0437 .0438 .0439 .00440 80440 8.	.60757 .60865 .60971 .61078 .61184	107,3 107,0 106,8			.60507 .60615	107,6 107,4	·39493 ·39385
.0406 .0407 .0408 .0407 .0408 .0409 .00410 .0411 .0412 .0413 .0414 .00417 .0418 .0419 .00421 .0422 .0423 .0424 .00425 .0426 .0427 .0428 .0429 .00431 .0432 .0433 .0434 .00437 .0438 .0439 .00441 .0442 .00443 .00443 .00444 .00443 .00444 .00443 .00444 .00444 .00443 .00444	.60865 .60971 .61078 .61184	107,0 106,8			- 1		
.0407 .0408 .0409 .0410 .0411 .0412 .0413 .0414 .0415 .0416 .0417 .0418 .0419 .0421 .0421 .0422 .0423 .0424 .0426 .0427 .0426 .0427 .0428 .0429 .0431 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0431 .0432 .0436 .0437 .0438 .0439 .0439 .0440 .0441 .0443	.60971 .61078 .61184	106,8		0,2	8.60722	107,1	1.39278
.0408 .0409 .0410 .0411 .0412 .0413 .0414 .00415 .0416 .0417 .0418 .0419 .00420 .0421 .0422 .0423 .0424 .0427 .0428 .0429 .0429 .0429 .0431 .0432 .0431 .0432 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0438 .0439 .0439 .0438 .0439 .0438 .0439 .0438 .0439 .0449 .0443	.61078 .61184 .61291		.00036		60829	106,9	.39171
.04090410 804110412041304140.0415 80416041704180419042104210422042304240425 8042604270428042904310432043304340435 80436043704380439043904390440 8044104420443	.61184 .61291		.00036		.60935	106,6	.39065
0.0410 8. 0.0411 . 0.0413 . 0.0415 8. 0.0416 . 0.0417 . 0.0418 . 0.0421 . 0.0421 . 0.0421 . 0.0423 . 0.0424 . 0.0425 8. 0.0426 . 0.0427 . 0.0428 . 0.0429 . 0.0430 8. 0.0431 . 0.0432 . 0.0431 . 0.0432 . 0.0438 . 0.0436 . 0.0437 . 0.0438 . 0.0439 . 0.0440 8. 0.0441 . 0.0442 . 0.0443 .	.61291	106,5	.00036		.61042	106,3	.38958
.0411 .0412 .0413 .0414 .0415 .0416 .0416 .0417 .0418 .0419 .0420 .0421 .0422 .0423 .0424 .0423 .0424 .0427 .0428 .0427 .0428 .0429 .0431 .0432 .0431 .0432 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0439 .0439 .0439 .0439 .0439 .0439 .0439 .0439 .0439 .0440 .0441 .0442 .0443		106.2	.00036		.61148	106,1	.38852
.0412 .0413 .0414 .0.0415 .0.0416 .0417 .0417 .0418 .0419 .0.0421 .0422 .0423 .0424 .0.0425 .0426 .0427 .0428 .0429 .0431 .0432 .0431 .0432 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0439 .0438 .0439 .0440 .0441 .0442 .0443		106,0	0.00036	0,2	8.61254	105,8	1.38746
.041304140415 80416041604170418041904210422042304240425 8042604270428042904310432043304340435 80436043704380439044104420443	.61396	105,7	.00037		.61360	105,5	.38640
.041304140415 80416041604170418041904210422042304240425 8042604270428042904310432043304340435 80436043704380439044104420443	.61502	105,5	.00037		.61465	105,3	.38535
.04140415 804160417041804190420 804210422042304240425 8042604270428042904310432043304340435 804360437043804390440 8044104420443	61607	105,2	.00037		.61570	105,0	.38430
.0416 .0417 .0418 .0419 .0.0420 .0421 .0422 .0423 .0424 .0.0425 .0.0425 .0.0426 .0.0427 .0.0428 .0.0431 .0.0432 .0.0431 .0.0432 .0.0431 .0.0435 .0.0436 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443	.61712	105,0	.00037		.61675	104,8	.38325
.0416 .0417 .0418 .0419 .0.0420 .0421 .0422 .0423 .0424 .0.0425 .0.0425 .0.0426 .0.0427 .0.0428 .0429 .0.0431 .0.0432 .0.0431 .0.0432 .0.0431 .0.0435 .0.0436 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443	.61817	104,7	0.00037	0,2	8.61780	104,5	1.38220
.0417 .0418 .0419 .0419 .0420 .0421 .0422 .0423 .0424 .0.0425 .0426 .0426 .0427 .0428 .0429 .0431 .0432 .0433 .0434 .0436 .0437 .0438 .0439 .0439 .0440 .0441 .0443	61922	104,5	.00038		.61884	104,3	.38116
.0418041904190420 804210422042304240426 8042604270428042904310432043104320435 80436043604370438043904390440 8044104420443	.62026	104,2	.00038	1	.61988	104,0	.38012
.04190420 804210422042304240.0425 8042604270428042904310432043204340435 804360437043804390440 8044104420443	.62130	104,0	.00038		.62092	103,8	.37908
.0421 .0422 .0423 .0424 .0.0425 .0.0426 .0.0427 .0.0428 .0.0429 .0.0431 .0.0431 .0.0432 .0.0433 .0.0434 .0.0435 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443	62234	103,7	.00038		.62196	103,5	.37804
.0421 .0422 .0423 .0424 .0.0425 .0.0426 .0.0427 .0.0428 .0.0429 .0.0431 .0.0431 .0.0432 .0.0433 .0.0434 .0.0435 .0.0436 .0.0437 .0.0438 .0.0439 .0.0440 .0.0441 .0.0442 .0.0443	.62338	103,5	0.00038	0,2	8.62299	103,3	1.37701
.0422 .0423 .0424 .0425 .0426 .0427 .0428 .0429 .0431 .0432 .0433 .0434 .0435 .0436 .0436 .0437 .0438 .0439 .0439 .0439 .0439 .0439	62441	103,2	.00038	0,2	.62403		
.0423 .0424 .0425 .0426 .0427 .0428 .0429 .0431 .0432 .0433 .0434 .0435 .0436 .0437 .0438 .0439 .0439 .0439 .0437					.02403	103,0	37597
.04240425 8042604270428042904310432043204340435 804360437043804390440 8044104420443	.62544	103,0	.00039	Į	.62505	102,8	37495
0.0425 8. .0426 . .0427 . .0428 . .0429 . 0.0430 8. .0431 . .0432 . .0433 . .0434 . 0.0435 8. .0436 . .0437 . .0437 . .0438 . .0439 . 0.0440 8.	.62647 .62750	102,7	.00039		.62608 .62711	102,5 102,3	.37392
.0426 .0427 .0428 .0429 .0430 .0431 .0432 .0433 .0434 .0435 .0436 .0436 .0437 .0438 .0439 .0439 .0440 .0441 .0442				,		-	
.0427 .0428 .0429 .0430 .0431 .0432 .0433 .0434 .00435 .0436 .0437 .0438 .0439 .0440 .0441 .0442	.62852	102,2	0.00039	0,2	8.62813	102,1	1.37187
.0428 .0429 .0.0430 .0431 .0432 .0433 .0434 .0.0435 .0436 .0437 .0438 .0439 .0.0440 .0441 .00442	.62954	102,0	.00039		.62915	101,8	.37085
.04290430 804310432043304340.0435 804360437043804390440 8044104420443	.63056	101,8	.00040	ì	.63016	101,6	. 36984
0.0430 8. 0.431 . 0.432 . 0.433 . 0.434 . 0.0435 8. 0.0436 . 0.0437 . 0.0438 . 0.0439 . 0.0440 8.	.63158	101,5	.00040	ĺ	.63118	101,3	.36882
.0431 .0432 .0433 .0434 .00435 .0436 .0437 .0438 .0439 .00440 .0441 .0442 .0443	.63259	101,3	.00040		.63219	101,1	.36781
.0432 .0433 .0434 .0.0435 .0436 .0437 .0438 .0439 .0.0440 .0441 .0442 .0443	.63360	101,1	0.00040	9,2	8.63320	100,9	1.36680
.0433 .0434 .0.0435 .0436 .0437 .0438 .0439 .0.0440 .0441 .0442 .0443	.63461	100,8	.00040		.63421	100,6	.36579
.0433 .0434 .0.0435 .0436 .0437 .0438 .0439 .0.0440 .0441 .0442 .0443	.63562	100,6	.00041	1	.63521	100,4	.36479
0.0435 .0436 .0437 .0438 .0439 .00440 .0441 .0442 .0443	.63662	100,4	.00041	ł	63622	100,2	.36378
.0436043704380439 0.0440 8044104420443	.63763	100,1	.00041		.63722	99,9	.36278
.0436043704380439 0.0440 8044104420443	.63863	99,9	0.00041	0,2	8.63822	99,7	1.36178
.0437 .0438 .0439 .0.0440 .0441 .0442 .0443	.63962	99,7	.00041	·	.63921	99,5	.36079
.0438 .0439 .0.0440 .0441 .0442 .0443	.64062	99,4	.00041		.64020	99,3	.35980
.0439 0.0440 .0441 .0442 .0443	.64161	99,2	.00042	1	.64120	99,0	.35880
.0441 .0442 .0443	64260	99,0	.00042		.64219	98,8	.35781
.0441 .0442 .0443	.64359	98,8	0.00042	0,2	8.64317	98,6	1.35683
.0442	.64458	98,5	.00042	-,-	.64416	98,4	.35584
.0443	64556	98,3	.00042		.64514	98,1	35486
	64655	98,1	.00043		.64612	97,9	.35388
1	.64753	97,9	.00043		.64710	97,7	35290
0.0445 8.	.64850	97,7	0.00043	0,2	8.64807	97,5	1.35193
	.64948	97,4	.00043	,	64905	97,2	35095
	.65045	97,2	.00043	[	65002	97,0	.34998
	.65142	97,0	.00043		.65099	96,8	.34990
		96,8	.00044		.65195	96,6 96,6	.34901
0.0450 8.	.65239	96,6	0.00044	0,2	8.65292	96,4	1.34708
3.0430	.65239 .65336	90,0	0.00044		log sin ad u	<del>90,4</del>	1.34/00

0.0450	log sinh u	ω F <sub>0</sub> ′	log cosh u	⇔ F₀′	log tanh u	ω F₀′	log coth
	8.65336	96,6	0.00044	0,2	8.65292	96,4	1.34
.0451	.65432	96,4	.00044	0,2	.65388	96,2	•34
.0452	.65529	96,I	.00044		.65484	96,0	• 34
.0453	.65625	95,9	.00045		.65580	95,7	•34
.0454	.65721	95,7	.00045		.65676	95,5	•34
0.0455	8.65816	95,5	0.00045	0,2	8.65771	95,3	I.34
.0456	.65912	95,3	.00045		.65866	95,1	•34
.0457	.66007	95,1	.00045		.65961	94,9	•34
.0458	.66102	94,9	.00046		.66056	94,7	•33
.0459	.66197	94,7	.00046	1.	.66151	94,5	•33
0.0460	8.66291	94,5	0.00046	0,2	8.66245	94.3	1.33
.0461	.66385	94,3	.00046	-,-	.66339	94,1	• 33
.0462	66480	94,1	.00046		66433	93,9	-33
.0463	.66574	93,9	.00047		.66527	93,7	•33
0464	.66667	93,7	.00047	Grand day	.66621	93,5	•33
0.0465	8.66761	93,5	0.00047	0,2	8.66714	93,3	1.33
.0466	.66854	93,3	.00047	Sage of	.66807	93,1	.33
.0467	66947	93,1	.00047		.66900	92,9	•33
.0468	.67040	92,9	.00048		.66993	92,7	• 33
.0469	.67133	92,7	.00048		.67085	92,5	.32
0.0470	8.67226	92,5	0.00048	0,2	8.67178	92,3	1.32
.0471	.67318	92,3	.00048		.67270	92,1	.32
.0472	.67410	92,1	.00048		.67362	91,9	.32
.0473	.67502	91,9	.00049		67454	91,7	.32
.0474	.67594	91,7	.00049		.67545	91,5	.32
0.0475	8.67686	91,5	0.00049	0,2	8.67637	91,3	1.32
.0476	67777	91,3	.00049		.67728	91,1	.32
.0477	.67868	91,1	.00049		.67819	90,9	.32
.0478	.67959	90,9	.00050		.67910	90,7	.32
.0479	.68050	90,7	.00050		.68000	90,5	.32
0.0480	8.68141	90,5	0.00050	0,2	8.68091	90,3	1.31
.0481	.68231	90,4	.00050		.68181	90,2	.31
.0482	.68322	90,2	00050		68271	90,0	.31
.0483	.68412	90,0	00051		.68361	89,8	.31
.0484	.68501	89,8	.00051	Andreas (1964) Andreas (1964)	.68451	89,6	.31
0.0485	8.68591	89,6	0.00051	0,2	8.68540	89,4	1.31
.0486	.68681	89,4	.00051		.68629	89,2	.31
.0487	.68770	89,2	.00051		.68719	89,0	.31
.0488	.68859	89,1	.00052		.68808	88,9	.31
. <b>0</b> 489	.68948	88,9	.00052		.68896	88,7	.31
0.0490	8.69037 .69126	88,7 88,5	0.00052	0,2	8.68985	88,5	1.31
.0491		88,3	.00052		69073	88,3	.30
.0492	.69214 .69302	88,2	.00053		.69161	88,1 87.0	.30
.0493	.69390	88,0	.00053		.69250	87,9 87,8	.30
.0494			.00053		.69337		.30
0.0495	8.69478 .69566	87,8 87,6	0.00053	0,2	8.69425	87,6	1.30
.0496	.69654		.00053		.69513	87,4 87,2	.30
0497	.69741	87,5 87,3	.00054	1	.69687	87,2 87,1	.30
.0498	.69828	87,1	.00054	1 4	.69774	86,9	.30
0.0500	8.69915	86,9	0.00054	0,2	8.69861	86,7	1.30
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> /	log sin gd u	ω F <sub>0</sub> '	log csc

u         log sinh u         ∞ F <sub>2</sub> /         log cosh u         ∞ F <sub>2</sub> /         log tanh u         ∞ F <sub>2</sub> /         log tanh u         ∞ F <sub>2</sub> /         u         F <sub>2</sub> /         log tanh u         ∞ F <sub>2</sub> /         u         F <sub>2</sub> /         log tanh u         ∞ F <sub>2</sub> /         u         F <sub>2</sub> /         log tanh u         ∞ F <sub>2</sub> /         u         F <sub>2</sub> /         Log tanh u         ∞ F <sub>2</sub> /         u         F <sub>2</sub> /         U         So, 2         2,000 ±         So, 3         So, 5         So, 2         So, 2	<u> </u>			thms of Hy				
0.0501	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω Fo′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.501	0.0500	8.60015	86,9	0.00054	0.2	8.60861	86.7	1.3013
0.9502					1		86.5	.3005
0.503	_	1		1	1 .		86.4	.2000
0.0504			86.4		1			
0.506			86,2					.2988
0.506	0.0505	8 70248	<b>86 ⊤</b>	0 00055	0.0	8 70000	8=0	1.2970
0.507					0,2			
0.9508	_				1		05,7	.2952
0.0509					1		85,5	.2953
0.0509	.0508	.70005	85,6	.00050	1	.70549	85,3	.2945
0.511	.0509	.70691	85,4	.00056		.70634	85,2	.2936
0.511	0.0510	8.70776	85,2	0.00056	0,2	8.70719	85.0	1.2928
0.512				.00057	'			.2910
0.0513							847	.2911
.0514         .71115         84,6         .00057         .71058         84,3           0.0515         8.71200         84,4         0.0058         0,2         8.71142         84,2           .0516         .71284         84,2         .00058         .71226         84,0           .0517         .71368         84,1         .00058         .71310         83,9           .0518         .71452         83,9         .00058         .71394         83,7           .0519         .71536         83,8         .00058         .71478         83,7           .0519         .71536         83,6         .00059         .71478         83,5           .0520         8.71620         83,6         .00059         .71644         83,2           .0521         .71703         83,3         .00059         .71644         83,2           .0522         .71787         83,3         .00059         .71893         82,7           .0524         .71953         83,0         .00060         .2         8.71976         82,6           .0525         8.7236         82,8         .00060         .2         8.71976         82,6           .0527         .72201         82,5					1		04,7	
0.0515         8.71200         84,4         0.00058         0,2         8.71142         84,2           .0516         .71284         84,2         .00058         .71226         84,0           .0517         .71368         84,1         .00058         .71310         83,9           .0518         .71452         83,9         .00058         .71394         83,7           .0519         .71536         83,8         .00058         .71478         83,7           .0520         8.71620         83,6         .00059         .71644         83,2           .0521         .71703         83,4         .00059         .71644         83,2           .0521         .71793         83,4         .00059         .71811         82,9           .0522         .71870         83,1         .0059         .71811         82,9           .0523         .71870         83,1         .0059         .71811         82,9           .0525         .72119         82,6         .00060         .72141         82,3           .0526         .72119         82,6         .00060         .72141         82,3           .0527         .72201         82,5         .0060         .72141				1	1		04,5	.2002
.0516         .71284         84,2         .00058         .71226         84,0           .0517         .71368         84,1         .00058         .71310         83,9           .0518         .71452         83,9         .00058         .71304         83,7           .0519         .71536         83,8         .00058         .71478         83,5           .0520         8.71620         83,6         0.00059         0,2         8.71561         83,4           .0521         .71703         83,4         .00059         .71644         83,2           .0522         .7187         83,3         .00059         .71811         82,9           .0523         .71870         83,1         .00059         .71811         82,9           .0524         .71953         83,0         .00000         .71893         82,7           .0525         8.72036         82,8         0.0000         .72141         82,6           .0526         .72119         82,6         .0000         .72059         82,4           .0527         .72201         82,5         .00061         .72230         81,9           .0529         .72366         82,2         .00061         .72450	.0514	.71115	84,0	.00057	1.	.71058	84,3	.2894
1.0517					0,2			1.2885
.0518         .71452         83,9         .00058         .71394         83,7           .0519         .71536         83,8         .00058         .71478         83,5           0.0520         8.71620         83,6         0.00059         .71644         83,2           .0521         .71793         83,4         .00059         .71644         83,2           .0522         .71870         83,1         .00059         .71811         82,9           .0524         .71953         83,0         .00060         .71893         82,7           0.0524         .71953         83,0         .00060         .72199         82,6           .0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72848         82,3         .00061         .72230         81,9           .0531         .72530         81,9         .00061         .72459         81,8           .0531         .72530         81,9         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3 </td <td>.0516</td> <td>.71284</td> <td></td> <td>.00058</td> <td>1</td> <td>.71226</td> <td>84,0</td> <td>.2877</td>	.0516	.71284		.00058	1	.71226	84,0	.2877
.0518         .71452         83,9         .00058         .71394         83,7           .0519         .71536         83,8         .00058         .71478         83,5           0.0520         8.71620         83,6         0.00059         .71644         83,2           .0521         .71793         83,4         .00059         .71644         83,2           .0522         .71787         83,3         .00059         .71811         82,9           .0524         .71953         83,0         .00060         .71893         82,7           0.0524         .71953         83,0         .00060         .72199         82,6           .0526         .72119         82,6         .00060         .72039         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72244         82,2         .00061         .72230         81,9           .0531         .72530         81,9         .00061         .72459         81,5           .0533         .72693         81,6         .00062         .72550         81,5           .0533         .72693         81,1         .00062         .72875         80,9 </td <td>.0517</td> <td>.71368</td> <td>84,1</td> <td>.00058</td> <td>]</td> <td>.71310</td> <td></td> <td>.2869</td>	.0517	.71368	84,1	.00058	]	.71310		.2869
.0519         .71536         83,8         .00058         .71478         83,5           0.0520         8.71620         83,6         0.00059         0,2         8.71561         83,4           .0521         .71703         83,4         .00059         .71644         83,2           .0522         .7187         83,3         .00059         .71811         82,9           .0523         .71870         83,1         .00059         .71811         82,9           .0523         .71873         83,0         .00060         .71811         82,9           .0524         .71953         83,0         .00060         .71811         82,6           .0525         .7219         82,6         .00060         .72039         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0529         .72366         82,2         .00061         .72305         81,9           .0531         .72530         81,9         .00061         .72459         81,6           .0531         .72530         81,6         .00062         .72032         81,3           .0533         .72603         81,6         .00062         .72733								.2860
0.521	-		83,8				83,5	.2852
0.521	0.0520	8 71620	806	0.00050	0.2	& ATEKT	82.4	1.2843
.0522         .71787         83,3         .00059         .71728         83,0           .0523         .71870         83,1         .00059         .71811         82,9           .0524         .71953         83,0         .00060         .71893         82,7           0.0525         8.72036         82,8         0.00060         .72059         82,6           .0526         .72119         82,6         .00060         .72141         82,3           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72459         81,9           .0531         .72448         82,0         .00061         .72469         81,6           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72632         81,5           .0533         .72693         81,6         .00062         .72632         81,5           .0536         .72937         81,1         .00062         .72875         80,9 <td></td> <td></td> <td></td> <td></td> <td>0,2</td> <td></td> <td></td> <td>1.2043</td>					0,2			1.2043
.0523         .71870         83,1         .00059         .71811         82,9           .0524         .71953         83,0         .00060         .71893         82,7           0.0525         8.72036         82,8         0.00060         .72059         82,6           .0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           .0530         8.72448         82,0         .00061         .72459         81,6           .0531         .72530         81,9         .00061         .72459         81,6           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .73036         80,6 </td <td>-</td> <td></td> <td></td> <td></td> <td>1</td> <td></td> <td></td> <td>.2835</td>	-				1			.2835
.0524         .71953         83,0         .00060         .71893         82,7           0.0525         8.72036         82,8         0.00060         0,2         8.71976         82,6           .0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0520         .72366         82,2         .00061         .72305         81,9           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0536         .72937         81,1         .00062         .72956         80,7           .0538         .73099         80,8         .00063         .73036				,	1		83,0	.2827
0.0525         8.72036         82,8         0.00060         0,2         8.71076         82,6           .0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .7284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         .72305         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72032         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .730	.0523	.71870	83,1			71811	82,9	.2818
.0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         0,2         8.72387         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72875         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0537         .73018         81,0         .00062         .72875         80,9           .0536         .72937         81,1         .00062         .72956         80,7           .0539         .73180         80,7         .00063         .73036	.0524	.71953	83,0	•00060	j	.71893	82,7	.2810
.0526         .72119         82,6         .00060         .72059         82,4           .0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         0,2         8.72387         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72875         80,5           .0535         .72937         81,1         .00062         .72875         80,9           .0535         .73018         81,0         .00063         .72956         80,7           .0537         .73018         81,0         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117 <td>0.0525</td> <td>8.72036</td> <td>82,8</td> <td></td> <td>0,2</td> <td>8.71976</td> <td>82,6</td> <td>1.2802</td>	0.0525	8.72036	82,8		0,2	8.71976	82,6	1.2802
.0527         .72201         82,5         .00060         .72141         82,3           .0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         0,2         8.72387         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0538         .73098         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         .73	.0526	.72119	82,6	.00060			82.4	.2794
.0528         .72284         82,3         .00061         .72223         82,1           .0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         0,2         8.72387         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         0,2         8.72794         81,0           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064 </td <td>-</td> <td></td> <td>82.5</td> <td></td> <td></td> <td></td> <td></td> <td>2785</td>	-		82.5					2785
.0529         .72366         82,2         .00061         .72305         81,9           0.0530         8.72448         82,0         0.00061         0,2         8.72387         81,8           .0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72032         81,3           .0534         .72775         81,4         .00062         .72875         80,9           .0535         .72937         81,1         .00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0540         8.73260         80,5         0.00063         .73117         80,4           .0541         .73341         80,4         .00064         .73357         80,0           .0542         .73421         80,2         .00064         .73436<								.2777
.0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0538         .73099         80,8         .00063         .72956         80,7           .0539         .73180         80,7         .00063         .73036         80,6           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73341         80,4         .00064         .73277         80,1           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73597         79,5           .0545         .73741         79,6         .00065         .73755         79,2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.2769</td>								.2769
.0531         .72530         81,9         .00061         .72469         81,6           .0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         .73277         80,1           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73341         80,2         .00064         .73436         79,8	0.0520	8 72448	820	0 0006r	0.0	8 7008	0.0	1 0761
.0532         .72612         81,7         .00061         .72550         81,5           .0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         0,2         8.72794         81,0           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0540         8.73260         80,5         0.00063         .73117         80,4           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73597         79,5           .0545         .73741         79,6         .00065         .73755<					1			1.2761
.0533         .72693         81,6         .00062         .72632         81,3           .0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         0,2         8.72704         81,0           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         .73277         80,1           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .0006					45 MOV			.2753
.0534         .72775         81,4         .00062         .72713         81,2           0.0535         8.72856         81,3         0.00062         0,2         8.72794         81,0           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         .73117         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .737			81,7		}			.2745
0.0535         8.72856         81,3         0.00062         0,2         8.72704         81,0           .0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73755         79,2           .0548         .73900         79,3<								2736
.0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72056         80,7           .0538         .73090         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065 </td <td>.0534</td> <td>.72775</td> <td>81,4</td> <td>.00062</td> <td></td> <td>.72713</td> <td>81,2</td> <td>.2728</td>	.0534	.72775	81,4	.00062		.72713	81,2	.2728
.0536         .72937         81,1         .00062         .72875         80,9           .0537         .73018         81,0         .00063         .72056         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73755         79,2           .0547         .73820         79,5         .00065         .73835         79,1           .0549         .73979         79,2         .00065 </td <td>0.0535</td> <td>8.72856</td> <td>81,3</td> <td>0.00062</td> <td>0,2</td> <td>8.72794</td> <td>81,0</td> <td>1.2720</td>	0.0535	8.72856	81,3	0.00062	0,2	8.72794	81,0	1.2720
.0537         .73018         81,0         .00063         .72956         80,7           .0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73601         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065         .73914         78,9		.72937	81,1	.00062		.72875	80,9	2712
.0538         .73099         80,8         .00063         .73036         80,6           .0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         0,2         8.73597         79,5           .0545         8.73661         79,8         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73914         78,9           .0549         .73979         79,2         .00065         .73914         78,9			81.0	.00063	Ī		80.7	.2704
.0539         .73180         80,7         .00063         .73117         80,4           0.0540         8.73260         80,5         0.00063         0,2         8.73197         80,3           .0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73914         78,9								.2696
.0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065         .73914         78,9			80,7					.2688
.0541         .73341         80,4         .00064         .73277         80,1           .0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065         .73914         78,9	0.0540	8 72260	80 #	0.00062	0.2	8 72707		1.2680
.0542         .73421         80,2         .00064         .73357         80,0           .0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065         .73914         78,9			80,5		∪,∠			
.0543         .73501         80,1         .00064         .73436         79,8           .0544         .73581         79,9         .00064         .73517         79,7           0.0545         8.73661         79,8         0.00064         0,2         8.73597         79,5           .0546         .73741         79,6         .00065         .73676         79,4           .0547         .73820         79,5         .00065         .73755         79,2           .0548         .73900         79,3         .00065         .73835         79,1           .0549         .73979         79,2         .00065         .73914         78,9			00,4					.2672
.0544         .73581         79.9         .00064         .73517         79.7           0.0545         8.73661         79.8         0.00064         0,2         8.73597         79.5           .0546         .73741         79.6         .00065         .73676         79.4           .0547         .73820         79.5         .00065         .73755         79.2           .0548         .73900         79.3         .00065         .73835         79.1           .0549         .73979         79.2         .00065         .73914         78.9								.2664
0.0545     8.73661     79,8     0.00064     0,2     8.73597     79,5       .0546     .73741     79,6     .00065     .73676     79,4       .0547     .73820     79,5     .00065     .73755     79,2       .0548     .73900     79,3     .00065     .73835     79,1       .0549     .73979     79,2     .00065     .73914     78,9					}			.2656
.0546     .73741     79,6     .00065     .73676     79,4       .0547     .73820     79,5     .00065     .73755     79,2       .0548     .73900     79,3     .00065     .73835     79,1       .0549     .73979     79,2     .00065     .73914     78,9	.0544	.73581	79,9	.00064		.73517	79.7	.2648
.0546     .73741     79,6     .00065     .73676     79,4       .0547     .73820     79,5     .00065     .73755     79,2       .0548     .73900     79,3     .00065     .73835     79,1       .0549     .73979     79,2     .00065     .73914     78,9	0.0545				0,2	8.73597	79,5	1.2640
.0547 .73820 79,5 .00065 .73755 79,2 .0548 .73900 79,3 .00065 .73835 79,1 .0549 .73979 79,2 .00065 .73914 78,9		.73741		.00065				.2632
.0548 .73900 79,3 .00065 .73835 79,1 .0549 .73979 79,2 .00065 .73914 78,9								.2624
.0549 .73979 79,2 .00065 .73914 78,9	OE AR					72825		.2616
	.0549							.2608
5,70330 7030				0.00066	0.2		Ì	1.2600
u log tan gd u ∞ Fo′ log sec gd u ∞ Fo′ log sin gd u ∞ Fo′ lo								log csc gd

		ACHECONICIONI TORONTA NA LA	1	1	1		
U	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	∞ F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0550	8.74058	79,0	0.00066	0,2	8.73993	78,8	1.2600
.0551	74137	78,9	.00066		74071	78.7	.25929
.0552	.74216	78,8	.00066		74150	78,5	.25850
.0553	.74295	78,6	.00066	1	74228	78,4	.25772
.0554	.74373	78,5	.00067		74307	78,2	2569
	0 #4.#0	<b>⊬</b> 0 ∘	0 00067				
0.0555	8.74452 •74530	78,3 78,2	0.00067	0,2	8.74385 .74463	78,1	1.2561
.0557	.74608	78,0	.00067	1		77.9	.25537
.0558	.74686	77,9	.00068		74541	77,8	.25459
.0559	74764	77,8	.00068		.74618 .74696	77,7 77,5	.2538 .2530
	0 - 0		60				
0.0560	8.74841 .74919	77,6 77,5	0.00068	0,2	8.74773 .74851	77,4	1.2522
0562	74996	77,4	.00069	1		77,3	.25149
.0563	.75074	77,2	.00069		74928	<i>77</i> ,1	.2507
.0564	.75151	77,1	.00069	1 m 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.75005 .75082	77,0 76,8	.2499
			6-				
0.0565	8.75228 -75305	76,9 76,8	0.00069	0,2	8.75159 •75235	76,7 76,6	1.2484
.0567	75382	76,7	.00070		.75312	76,4	.2476 .2468
0558	.75458	76,5	.00070		75388		
.0559	·75535	76,4	.00070	1	75464	76,3 76,2	.2461
					the state of		
0.0570	8.75611 .75687	76,3 76,1	0.00071 .00071	0,2	8.75540	76,0	1.2446
.0572		76,0	.00071		.75616	75,9	.2438
	75703				75692	75,8	.2430
.0573	.75839 .75915	75,9 75,7	.00071	1	.75768 .75844	75.6	.2423
`					,	75,5	.2415
	8.75991	75,6	0.00072	0,2	8.75919	75,4	1.2408
0576	.76066	75,5	.00072	0,2	·75994	75,2	.24000
.0577	.76142	75,4	.00072	0,3	76069	75,I	.2393
.0578	.76217	75,2	.00073		.76144	75.0	.2385
.0579	.76292	75,1	.00073		76219	74,8	.2378
0.0580	8.76367	75,0	0.00073	0,3	8.76294	74,7	1.2370
.0581	.76442	74,8	.00073		.76369	74,6	.2363
.0582	.76517	74,7	.00074		.76443	74.5	-2355
.0583	.76591	<b>74,</b> 6	.00074		76518	74,3	.2348
.0584	.76666	74.5	.00074		.76592	74,2	.2340
0.0585	8.76740	74,3	0.00074	0,3	8.76666	74,1	1.2333
.0586	.76815	74,2	.00075	5,5	76740	73.9	.2326
0587	.76889	74,1	00075		76814	73,8	.23180
.0588	.76963	73,9	.00075		76888	73,7	.2311
.0589	77037	73,8	.00075	( )	76961	73,6	.2303
0.0590	8.77110	73,7	0.00076	0,3	8.77035	א פידי	1.2296
.0591	.77184	73,6	.00076	U,55	.77108	73.4 73.3	.2280
.0592	.77258	73,4	00076		.77181	73,2	.2281
.0593	77331	73.3	.00076		77255	73,I	.2274
.0594	.77404	73,2	.00077		.77328	72,9	.2267
0.0595	8.77477	70°T	0.00077	0.2	8. 77.700		4 not-
.0595	.77550	73,1 73,0	.00077	0,3	8.77400 •77473	72,8 72,7	1,22600 .2252
.0597	.77623	72,8	.00077		.77546	72,6	.2245
.0598	.77696	72,7	.00078		.77618	72,5	.2238
.0599	.77769	72,6	00078	- 1 - 1	.77691	72,3	.2230
0.0600	8.77841	72,5	0.00078	0,3	8. <i>777</i> 63	72,2	1.2223
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd
	· - at 1 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			• 0		10 1	· cou esc aa i

		Logari	thms of Hy	perbolic	: Functions	•	
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0600	8.77841	70 5	0.00078	0,3	8.77763	72,2	1.22237
.0601		72,5	.00078	9,3	.77835		.22165
	•77914	72,3		1		72,1	1
.0602	.77986	72,2	.00079	i	•77907	72,0	.22093
0603	78058	72,1	.00079	1	•77979	71,8	.22021
<b>.0</b> 604	.78130	72,0	.00079		.78051	71,7	.21949
0.0605	8.78202	71,9	0.00079	0,3	8.78123	71,6	1.21877
.0606	.78274	71,8	.00080	1	.78194	71,5	.21806
.0607	.78346	71,6	.00080		.78266	71,4	.21734
.0608	.78417	71,5	.00080		.78337	71,3	.21663
.0609	.78489	71,4	.00080		.78408	71,1	.21592
0.0610	8.78560	71,3	0.00081	0,3	8.78479	71,0	1.21521
.0611	.78631	71,2	.00081	9,5	.78550	70,9	.21450
	70031		.00081		.78621	70,9	
.0612	.78702	71,1		ł		70,8	.21379
.0613	.78773	70,9	.00082	ı	78692	70,7	.21308
.0614	.78844	70,8	.00082	1	.78762	70,6	.21238
0.0615	8.78915	70,7	0.00082	0,3	8.78833	70,4	1.21167
.0616	.78986	70,6	.00082		78903	70,3	.21097
.0617	.79056	70,5	.00083	l	.78973	70,2	.21027
.0618	.79127	70,4	.00083		79044	70,1	.20956
.0619	.79197	70,3	.00083	İ	79114	70,0	.20886
0.0620	8.79267	70,1	0.00083	0,3	8.79184	69,9	1.20816
.0621			.00084	0,3		69,8	20747
	•79337	70,0	.00084	1.5	.79253	65.6	.20677
.0522	79407	69,9			•79323	69,6 69,5	
.0623	·79477	69,8	.00084		•79393	09,5	.20607
.0624	•79547	69,7	.00084	ng nas	.79462	69,4	.20538
0.0625	8.79616	69,6	0.00085	0,3	8.79532	69,3	1.20468
.0626	.79686	69,5	.00085		.79601	69,2	.20399
.0627	79755	69,4	.00085	200	.79670	69,1	.20330
.0628	.79825	69,2	.00086	<u> </u>	.79739	69,0	.20261
.0629	.79894	69,1	.00086		.79808	68,9	.20192
.0630	8.79963	69,0	0.00086	0,3	8.79877	68,8	1.20123
.0631	.80032	68.0	.00086	0,3		68,6	.20055
.0632	.80101	68,9 68,8	.00087		•79945	68,5	.19986
	.80160	60,0	.00087		.80014	68,4	19900
.0633		68,7			.80082	60,4	.19918
.0634	.80238	68,6	.00087		.80151	68,3	.19849
.0635	8.80307	68,5	0.00088	0,3	8.80219	68,2	1.19781
.0636	.80375	68,4	.00088		.80287	68,1	.19713
.0637	.80443	68,3	.00088	San San	.80355	68,0	.19645
.0638	.80512	68,2	.00088		.80423	67,9	.19577
.0639	.80580	68,1	.00089		.80491	67,9 67,8	.19509
0.0640	8.80648	68,o	0.00089	0,3	8.80559	67,7	1.19441
.0641	80716	67,8	.00089	-,0	80626	67,6	.19374
.0642	.80783	67,7	.00089		80694	67,5	.19306
0643	.80851	67,6	.00090		.80761	67,4	
.0644	.80919	67,5	.00090		80829	67,3	.19239
					-		N.
0.0645	8.80986	67,4	0.00090	0,3	8.80896	67,1	1.19104
.0646	.81053	67,3	.00091		.80963	67,0	.19037
.0647	.81121	67,2	.00091		.81030	66,9	. 18970
.0648	.81188	67,1	.00091		81097	66,8	.18903
.0649	.81255	67,0	.00091		.81164	66,7	. 18836
.0650	8.81322	66,9	0.00092	0,3	8.81230	66,6	1.18770
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log csc gd u

		without the tay on the state of the	Company and the Paper State Company				AND THE PROPERTY OF THE PARTY O	4.5
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω Fo'	log tanh u	ω F <sub>0</sub> ′	log coth u	
0.0650	8.81322	66,9	0.00092	0,3	8.81230	66,6	1.18770	
.0551	.81389	66,8	.00092	٠,5	.81297	66,5	. 18703	ľ
.0552	.81456	66,7	.00092		.81363	66,4	.18637	ĺ
.0653	.81522	66,6	.00093		.81430	66,3	18570	ı
.0053	.81522	66,5		į	.81496	66,2	.18504	ı
.0654			.00093					
0.0655	8.81655	66,4	0.00093	0,3	8.81562	66,1	1.18438	
.0556	.81722	66,3	.00093		.81628	66,0	. 18372	ı
.0657	.81788	66,2	.00094		.81694	65,9	. 18306	١.
.0658	.81854	66,1	.00094	tada ni e	.81760	65,8	.18240	ı
.0659	.81920	66,0	.00094		.81826	65,7	. 18174	ı
0.0660	8.81986	65,9	0.00095	0,3	8.81891	65,6	1.18109	ı
.0661	.82052	65,8	.00095	1	.81957	65,5	. 18043	1
.0562	.82118	65,7	.00095			65,4	.17978	ı
.0663	.82183	65,6	.00095		82088	65,3	.17912	1
.0664	.82249	65,5	.00096		.82153	65,2	.17847	
0.0665	8.82314	65,4	0.00096	0,3	8.82218	65,1	1.17782	ı
.0666	.82380	65,3	.00096	-,0	.82283	65,0	. 17717	ı
.0667	.82445	65,2	.00097		.82348	64,9	.17652	ı
.0668	.82510	65,1	.00097		.82413	64,8	.17587	I
	.82575	65,0	.00097		.82478	64,7	.17522	ı
.0009	.025/5		.00097	1 .	1		.1/522	ŀ
0.0670	8.82640	64,9 64,8	0.00097	0,3	8.82543	64,6	1.17457	l
.0671	.82705	64.8	.00098	19	.82607	64,5	17393	1
.0672	.82770	64,7	.00098		.82672	64,4	.17328	ı
.0673	.82834	64,6	.00098		.82736	64,3	.17264	1
.0674	.82899	64,5	.00099		.82800	64,2	.17200	
0.0675	8.82963	64,4	0.00099	0,3	8.82864	64,1	1.17136	ı
.0676	.83028	64.2	.00099	٠,5	.82929	64,1	.17071	1
.0677	.83028	64,3 64,2	.00099		.82994	64,0-	17006	1
				1	.83056	63,9	.16944	ŧ
.0678	.83156	64,2	.00100		03050	6.9		1
.0679	.83220	64,1	.00100		.83120	63,8	16880	ı
0.0680	8.83284	64,0	0.00100	0,3	8.83184	63,7	1.16816	١
.0681	.83348	63,9	10100.		83248	63,6	. 16752	ı
.0682	.83412	63,8	.00101		.83311	63,5	. 16689	
0683	.83476	63,7	.00101		83375	63,4	.16625	
.0684	.83539	63,6	.00102		.83438	63,3	.16562	
0.0685	8 82602	63,5	0.00102	0,3	8.83501	63,2	1.16499	
.0686	8.83603 .83666	63,4	.00102	-,5	.83564	63.1	.16436	1
.0687	.83730	63,3	,00102		.83627	63,0	.16373	
.0688	.83793	63,2	.00103		.83690	62,9	.16310	1
.0689	.83856	63,1	.00103		.83753	62,8	.16247	
-		mingraphy in the second of the second	0.00700		8.83816	62,7	1.16184	
0.0690	8.83919	63,0	0.00103	0,3		62,7	.16121	
.0691	.83982	63,0	.00104	ł	.83879		l -6 l	1
.0692	84045	62,9	.00104		.83941	62,0	10059	1
0693	.84108	62,8	.00104	1	84004	62,5	15996	ı
.0694	.84171	62,7	.00105		84066	62,4	.15934	
0.0595	8.84233	62,6	0.00105	0,3	8.84129	62,3	1.15871	
.0696	.84296	62,5	.00105	1	.84191	62,2	. 15809	
.0697	.84358	62.4	.00105	1	.84253	62,1	. 15747	
.0698	.84421	62,3	.00106		.84315	62,0	. 15685	
.0699	.84483	62,2	.00106	1	.84377	61,9	.15623	
0.0700	8.84545	62,1	0.00106	0,3	8.84439	61,8	1.15561	
u	iog tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> '	log sin gd u	ω Fo'	log csc gd u	

u u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0700 .0701 .0702 .0703 .0704	8.84545 .84607 .84669 .84731 .84793	62,1 62,1 62,0 61,9 61,8	0.00106 .00107 .00107 .00108	0,3	8.84439 .84501 .84562 .84624 .84686	61,8 61,8 61,7 61,6 61,5	1.15561 .15499 .15438 .15376
0.0705 .0706 .0707 .0708 .0709	8.84855 .84917 .84978 .85040 .85101	61,7 61,6 61,5 61,4 61,4	0.00108 .00108 .00109 .00109	0,3	8.84747 ,84808 .84870 .84931 .84992	61,4 61,3 61,2 61,1 61,0	1.15253 .15192 .15130 .15069 .15008
0.0710 .0711 .0712 .0713 .0714	8.85162 .85224 .85285 .85346 .85407	61,3 61,2 61,1 61,0 60,9	.00109 .00100 .00110 .00110	0,3	8.85053 .85114 .85175 .85235 .85296	61,0 60,9 60,8 60,7 60,6	1.14947 .14886 .14825 .14765 .14704
0.0715 .0716 .0717 .0718 .0719	8.85468 .85528 .85589 .85650 .85710	60,8 60,8 60,7 60,6 60,5	0.00111 .00111 .00112 .00112 .00112	0,3	8.85357 .85417 .85478 .85538 .85598	60,5 60,4 60,4 60,3 60,2	1.14643 .14583 .14522 .14462 .14402
0.0720 .0721 .0722 .0723 .0724	8.85771 .85831 .85891 .85952 .86012	60,4 60,3 60,3 60,2 60,1	0.00112 .00113 .00113 .00114	0,3	8.85658 .85718 .85778 .85838 .85898	60,1 60,0 59,9 59,9 59,8	1.14342 .14282 .14222 .14162 .14102
0.0725 .0726 .0727 .0728 .0729	8.86072 .86132 .86192 .86251 .86311	60,0 59,9 59,8 59,8 59,7	0.00114 .00115 .00115 .00115	<b>0,3</b> `	8.85958 .86017 .86077 .86137 .86196	59,7 59,6 59,5 59,5 59,4	1.14042 .13983 .13923 .13863 .13804
0.0730 .0731 .0732 .0733 .0734	8.86371 .86430 .86490 .86549 .86609	59,6 59,5 59,4 59,4 59,3	0.00116 .00116 .00117 .00117	0,3	8.86255 .86314 .86374 .86433 .86492	59,3 59,2 59,1 59,0 59,0	1.13745 .13686 .13626 .13567 .13508
0.0735 .0736 .0737 .0738 .0739	8.86668 .86727 .86786 .86845 .86904	59,2 59,1 59,0 59,0 58,9	0.00117 .00118 .00118 .00118	0,3	8.86551 .86609 .86668 .86727 .86785	58,9 58,8 58,7 58,6 58,6	1.13449 .13391 .13332 .13273 .13215
0.0740 .0741 .0742 .0743 .0744	8.86963 .87022 .87080 .87139 .87197	58,8 58,7 58,6 58,6 58,5	0.00119 .00119 .00120 .00120	Ö,3`	8.86844 .86902 .86961 .87019 .87077	58,5 58,4 58,3 58,2 58,2	1.13156 .13098 .13039 .12981 .12923
0.0745 .0746 .0747 .0748 .0749	8.87256 .87314 .87372 .87431 .87489	58,4 58,3 58,2 58,2 58,1	0.00120 .00121 .00121 .00121 .00122	0,3	8.87135 .87193 .87251 .87309 .87367	58,1 58,0 57,9 57,8 57,8	1.12865 .12807 .12749 .12691 .12633
0.0750 u	8.87547 log tan gd u	58,0 ∞ F <sub>0</sub> ′	0.00122	0,3 ∞ F <sub>0</sub> ′	8.87425 log sin gd ú	57.7 ∞ F <sub>0</sub> ′	1.12575 log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	<b>ω F</b> ₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.0750	8.87547	58,0	0.00122	9,3	8.87425	57,7	1.12575
.0751	.87605	57,9	.00122		.87482	57,6	.12518
.0752	.87663	57,9	.00123		.87540	57,5	.12460
.0753	.87721	57,8	.00123		.87598	57,5	.12402
.0754	.87778	57,7	.00123		.87655	57,4	.12345
0.0755	8.87836	57,6	0.00124	0,3	8.87712	57,3	1,12288
.0756	.87894	57,6	.00124		.87770	57,2	,12230
.0757	.87951	57,5	.00124		.87827	57,2	,12173
.0758	.88009	57,4	.00125		.87884	57,1	,12116
.0759	.88066	57,3	.00125		.87941	57,0	,12059
0.0760	8.88123	57,3	0.00125	.0.3	8.87998	56,9	1,12002
.0761	.88180	57,2	.00126		.88055	56,8	.11945
.0762	.88238	57,1	.00126		.88112	56,8	.11888
.0763	.88295	57,0	.00126		.88168	56,7	.11832
.0764	.88352	57,0	.00127		.88225	56,6	.11775
0.0765	8.88408	56,9	0.00127	0,3	8.88282	56,5	1.11718
.0766	.88465	56,8	.00127		.88338	56,5	.11662
.0767	.88522	56,7	.00128		.88394	56,4	.11606
.0768	.88579	56,7	.00128		.88451	56,3	.11549
.0769	.88635	56,6	.00128		.88507	56,3	.11493
0.0770	8.88692	56,5	0.00129	0,3	8.88563	56,2	1,11437
.0771	.88748	56,4	.00129		,88620	56,1	.11380
.0772	.88805	56,4	.00129		,88676	56,0	.11324
.0773	.88861	56,3	.00130		,88732	56,0	.11268
.0774	.88917	56,2	.00130		,88787	55,9	.11213
0.0775	8.88974	56,2	0.00130	<sub>.</sub> 0,3	8,88843	55,8	1.11157
.0776	.89030	56,1	.00131		,88899	55,7	.11101
.0777	.89086	56,0	.00131		,88955	55,7	.11045
.0778	.89142	55,9	.00131		,89010	55,6	.10990
.0779	.89198	55,9	.00132		,89066	55,5	.10934
0.0780 .0781 .0782 .0783 .0784	8.89253 .89309 .89365 .89421 .89476	55,8 55,7 55,6 55,6 55,5	0.00132 .00132 .00133 .00133	<b>.</b> 9.3	8.89122 .89177 .89232 .89288 .89343	55,5 55,4 55,3 55,2 55,2	1.10878 .10823 .10768 .10712 .10657
0.0785 .0786 .0787 .0788 .0789	8.89532 .89587 .89642 .89698 ^.89753	55,4 55,4 55,3 55,2 55,2	0.00134 .00134 .00135 .00135	<b>.</b> 0,3	8.89398 .89453 .89508 .89563 .89618	55,1 55,0 55,0 54,9 54,8	1.10602 .10547 .10492 .10437 .10382
0.0790 .0791 .0792 .0793 .0794	8.89808 .89863 .89918 .89973 .90028	55,1 55,0 54,9 54,8	0.00135 .00136 .00136 .00136	0,3	8,89672 ,89727 ,89782 ,89836 ,89891	54,7 54,7 54,6 54,5 54,5	1.10328 .10273 .10218 .10164 .10109
0.0795 .0796 .0797 .0798 .0799	8.90082 .90137 .90192 .90246 .90301	54,7 54,7 54,6 54,5 54,5	0.00137 .00137 .00138 .00138	<b>.</b> 0,3	8.89945 .90000 .90054 .90108 .90162	54,4 54,3 54,3 54,2 54,1	1.10055 .10000 .09946 .09892 .09838
0.0800	8.90355	54,4	0.00139	Ο,3	8.90216	54,I	1.09784
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω F <sub>0</sub> '	log sin gd u	∞ F₀′	log csc gd u

Ī		log oigh	ω F <sub>0</sub> '	log oceh r		los tonb	ω F <sub>0</sub> ′	log coth u
		log sinh u		log cosh u	ω F <sub>0</sub> ′	log tanh u		
	0.0800	8.90355	54,4 54,3	0.00139 .00139	0,3	- 8.90216 - 90271	54,1 54,0	1.09784
ı	.0802	<b>.9</b> 0464	54,3	.00140		.90324	53,9	.09676
	.0803	.90518	54,2	.00140		.90380	53,9	.09620
	.0804	.90572	54,1	.00140		.90432	53,8	.09568
	0.0805	8.90626	54,1	0.00141	0,3	8.90486	53.7	1.09514
I	.0806 .0807	.90681 .90734	54,0 53,9	.00141	0,3	.90540	53,6 53,6	.09460 .09407
I	.0808	.90788	53,9	.00142	0,3 0,4	.90593	53,5	.09353
	.0809	.90842	53,8	.00142	0,4	.90700	53,4	.09300
I	0.0810	8.90896	53,7	0.00142	0,4	8.90754	53,4	1.09246
ı	.0811	.90950	53,7	.00143		90807	53,3	.09193
I	.0812 .0813	.91003 .91057	53,6 53,5	.00143		.90860 .90914	53,3 53,2	.09140 .09086
	.0814	.91110	53,5	.00144		90967	53,I	.09033
	0.0815	8.91164	53,4	0.00144	0,4	8.91020	53,1	1.08980
	.0816	.91217	53,3	.00144		.91073	53,0	.08927
ı	.0817 .0818	.91271 .91324	53,3	.00145		.91126	52,9	.08874 .08821
	.0819	.91324	53,2 53,1	.00145		.91231	52,9 52,8	.08769
	0.0820	8.91430	53,I	0.00146	0,4	8.91284	52,7	1.08716
	.0821	.91483	53,0	.00146	, ,	.91337	52,7	.08663
	.0822	.91536	53,0	.00147		.91390	52,6	.08610
	.0823	.91589 .91642	52,9 52,8	.00147 .00147		.91442 .91495	52,5 52,5	.08558 .08505
	0.0825	8.91695	52,8	0.00148	0,4	8.91547	52,4	1.08453
H	.0826	.91747	52,7	.00148	,	.91599	52,3	.08401
	.0827	.91800	52,6	.00148		.91652	52,3	.08348 .08296
	.0820	.91853 .91905	52,6 52,5	.00149	• •	.91704 .91756	52,2 52,1	.08290
H	0.0830	8.91958	52,4	0.00149	0,4	8.91808	52,1	1.08192
I	.0831	.92010	52,4	.00150		.91860	52,0	.08140
I	.0832	.92062	52,3 52,3	.00150		.91912 .91964	52,0 51,9	.08088 .08036
	.0834	.92167	52,2	.00151		.92016	51,8	.07984
	0.0835	8.92219	52,1	0.00151	0,4	8.92068	51,8	1.07932
I	.0836	.92271	<b>52,</b> I	.00152		.92120	51,7	.07880
I	.0837	.92323	52,0	.00152		.92171 .92223	51,6	.07829
I	.0838	.92375 .92427	51,9 51,9	.00152		.92274	51,6 51,5	.07777 .07726
	0.0840	8.92479	51,8	0.00153	0,4	8.92326	51,5	1.07674
	.0841	.92531	51,8	.00153	,	.92377	51,4	.07623
	.0842 .0843	.92583	51,7	00154		.92429	51,3	.07571
	.0843	.92686	51,6 51,6	.00154		.92480 .92531	51,3 51,2	.07520
	0.0845	8.92737	51,5	0.00155	0,4	8.92582	51,2	1.07418
	.0846	.92789	51,5	.00155	Ì	.92634	51,1	.07366
	.0847 .0848	.92840 .92892	51,4	.00156 .00156		.92685 .92736	51,0 51,0	.07315 .07264
	.0849	.92943	51,3 51,3	.00156		.92787	50,9	.07213
	0.0850	8.92994	51,2	0.00157	0,4	8.92837	50,8	1.07163
	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

0.0850 .0851 .0852 .0853 .0854 0.0855 .0856	8.92994 .93045 .93096 .93148 .93199 8.93250 .93300	51,2 51,2 51,1 51,0 51,0	0.00157 .00157 .00157 .00158	0,4	8.92837 .92888	50,8	1.07163
.0851 .0852 .0853 .0854 0.0855 .0856	.93045 .93096 .93148 .93199 8.93250 .93300	51,2 51,1 51,0	.00157	0,4			
.0852 .0853 .0854 0.0855 .0856	.93096 .93148 .93199 8.93250 .93300	51,1 51,0	.00157		.U2000		n - anarate n
.0853 .0854 0.0855 .0856	.93148 .93199 8.93250 .93300	51,0				50,8	.07112
.0854 0.0855 .0856	.93199 8.93250 .93300		.00158		.92939	50,7	.07061
0.0855 .0856 .0857	8.93250 .93300	51,0			.92990	50,7	.07010
.0856	.93300		.00158		.93040	50,6	. <b>0</b> 6960
.0857		50,9	0.00159	0,4	8.93091	50,5	1.06909
.0857		50,9	.00159		.93141	50,5	.06859
	-93351	50,8	,00159	{ · · · ·	.93192	50,4	.06808
.0858	.93402	50,7	.00160		.93242	50,4	.06758
.0859	•93453	50,7	.00160		.93293	50,3	.06707
0.0860	8.93503	50,6	0.00160	0,4	8.93343	50,3	1.06657
.0861	•93554	50,6	.00161		.93393	50,2	.06607
.0862	.93604	50,5	.00161	1	•93443	50,1	.06557
.0863	.93655	50,4	.00162		93493	50,1	.06507
.0864	.93705	50,4	.00162		•93543	50,0	.06457
0.0865	8.93756	50,3	0.00162	0,4	8.93593	50,0	1.06407
.0866	.93806	50,3	.00163	, ,,,	93643	49,9	.06357
.0867	.93856	50,2	.00163	}	.93693	49,8	.06307
.0868	.93907	50,2	.00163		.93743	49,8	.06257
.0869	•93957	50,1	.00163	en cuchase discos	•93743	49,7	.06207
0.0870	8 04007	500	0.00164			49.7	
	8.94007	50,0		0,4	8.93843	49,7	1.06157
.0871	.94057	50,0	.00165		.93892	49,6	.06108
.0872	.94107	49,9	.00165	1	.93942	49,6	.06058
.0873	-94157	49,9	.00165		.93991	49,5	.06009
.0874	.94206	49,8	.00166		.94041	49,4	.05959
0.0875	8.94256	49,8	0.00166	0,4	8.94090	49,4	1.05910
.0876	.94306	49,7	.00166		.94140	49,3	.05860
.0877	.94356	49,6	.00167		.94189	ENTR	05811
.0878	.94405	49.6	012-09-080	77 77 1	E (14238)		.05762
.0879	•94455	AHTE	1 Lodios?	1110	C 1942871	1.0 102	LE:05713
0.0880	8.94504	49,5	0.00168	0.4	8.04226	49,1	1.05664
.0881	94554	49,4	.00168	Science ware	<b>A</b> 01386	49,0	.05615
.0882	.94603	49,4	.00160	Garanti 1	94434	49,0	.05566
.0883	.94652	49,3	.00160		<b>2773</b> 4		05517
.0884	.94702	49.3	11188991	lii.	61.02	SYLASSI	N 05468
0.0885	8.94751	49,2	0.00170		8.94581	48,8	1.05419
.0886	.94800	49,1	.00170	0,4	94630	48,8	
.0887	.94849	49,1	.00170	]			.05370
.0888	.94898	49,1	.00171		.94679	48,7	.05321
.0889	·94947	49,0	.00171		.94727 .94776	48,7 48,6	.05273
0.0890	8.94996	48,9	0.00172	0,4	8.94825	48,5	1.05175
.0891	.95045	48,9	.00172		.94873	48,5	.05127
.0892	.95094	48,8	.00173		.94922	48,4	.05078
.0893	.95143	48,8	.00173		.94970	48,4	.05030
.0894	.95192	48,7	.00173		.95018	48,3	.04982
0.0895	8.95240	48,7	0.00174	0,4	8.95067	48,3	1.04933
.0896	.95289	48,6	.00174		.95115	48,2	.04885
.0897	.95337	48,5	.00174		.95163	48,2	.04837
.0898	.95386	48,5	.00175		.95211	48,1	.04789
.0899	.95434	48,4	.00175		95259	48,0	.04741
0.0900	8.95483	48,4	0.00176	0,4	8.95307	48,0	1.04693
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

	1						
u u	log sin		log cosh	μωF	o' log tan	hu ω F	o' log coth u
0.09 .09 .09	95 902 903 95	531 580 628 4	8,4 0.001 8,3 .001 8,3 .001 8,2 .001 8,2 .001	76 76 77	·95	355 4 403 4 451 4	18,0 1.0469; 17,9 .0464; 17,9 .0459; 17,8 .0454; 17,8 .0450
0,09 .09 .09 .09	06 .95 07 .95 08 .95	772 4 320 4 368 4	8,1 8,1 8,0 8,0 8,0 001 7,9	78 78 79	8.95	547 4 594 4 642 4 689 4	7,7
0.091 .091 .091	11 .966 12 .966 13 .961 14 .961	012 4 060 4 07 4	7,9 0.0018 7,8 .0018 7,8 .0018 7,7 .0018 7,6 .0018	80 80 81	94 8.95% 958 958 959	784 4 832 4 879 4 927 4	7,5 1.04216 7,4 .04168 7,4 .04121 7,3 .04073 7,3 .04026
0.091 .091 .091	6 .962 7 .962 8 .963 9 .963	50 47 98 47 45 47 93 47	7,5 .0018 7,5 .0018 7,4 .0018	32 3	.4 8,960 .960 .961 .961	021 47 068 47 15 47 63 47	7,2 1.03979 7,1 .03932 7,1 .03885 7,0 .03837
.092 .092 .092 .092 .0922	1 .9644 2 .965 3 .965 4 .9662	37 47 35 47 32 47 39 47	.0018 .2 .0018 .2 .0018	4 4 5	4 8.962 .963 .963 .963	03 46 50 46 97 46	,9 ,8 ,03650 ,8
0.0925 .0926 .0927 .0928 .0929	9672 7 .9677 8 .9681 9686	3 47, 0 47, 7 46, 4 46,	0 .00186 0 .00186 9 .00187	5 7	4 8.9649 .9653 .9658 .9663	37 46, 34 46, 30 46,	.03463 .03416 .03370
0.0930 .0931 .0932 .0933 .0934	.9695 .9700 .9705	8 46,8 4 46,3 1 46,3	3 .00188 7 .00188 7 .00180	0,4	8.9672 .9677 .9681 .9686 .9690	0 46, 6 46, 2 46,	4 .03230 3 .03184 3 .03138
0.0935 .0936 .0937 .0938 .0939	8.9714 .9719 .9723 .9728 .97330	46,5 46,5 46,4 46,4	.00190	0,4	8.9695 .9700 .9704 .9709 .9713	1 46,1 7 46,1 3 46,0	.02999 .02953 .02907
0.0940 .0941 .0942 .0943 .0944	8.97377 .97423 .97469 .97516	46,3 46,2 46,1	0.00192 .00192 .00192 .00193	0,4	8.97185 -97231 -97277 -97323 -97368	45,9 7 45,8 3 45,8	.02769 .02723 .02677
0.0945 .0946 .0947 .0948 .0949	8.97608 .97654 .97700 .97746 .97792	46,1 46,0 46,0 45,9 45,9	0.00194 .00194 .00194 .00195	0,4	8.97414 •97460 •97505 •97551 •97597	45,7 45,6 45,6	1.02586
0.0950 u	8,97838 log tan gd u	45,9 ω F <sub>0</sub> ′	0,00196	0,4 ω <b>F</b> <sub>0</sub> '	8.97642 log sin gd u	45,4 ω F <sub>0</sub> '	I .02358

,u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>6</sub> ′	log tanh u	ω <b>F</b> <sub>0</sub> ′	log coth u
0.0950	8.97838	45,9	0.00195	0,4	8.97642	45,4	1.02358
.0951	.97883	45,8	.00196		.97687	45,4	.02313
.0952	.97929	45,8	.00197		97733	45,3	.02267
.0953	97975	45,7	.00197	1	.97778	45,3	.02222
.0954	.98021	45,7	.00197		.97823	45,2	.02177
0.0955	8.98066	45,6	0.00198	0,4	8.97869	45,2	1.02131
.0956	.98112	45,6	.00198		.97914	45,2	.02086
.0957	.98157	45,5	.00199		97959	45,1	.02041
.0958	.98203	45,5	.00199		98004	45,1	.01996
.0959	98248	45,4	.00199		.98049	45,0	,01951
0.0960	8.98294	45,4	0,00200	0,4	8.98094	45,0	1.01906
.0961	98339	45,3	.00200		.98139	44,9	.01861
.0962	.98384	45.3	.00201		.98184	44,9	.01816
.0963	.98430	45,2	.00201		.98229	44,8	.01771
.0964	.98475	45,2	.00201		.98273	44,8	.01727
0.0965	8,98520	.45 <b>,</b> I	0.00202	0,4	8.98318	44,7	1.01682
.0966	.98565	45,1	.00202	0,4	.98363	44,7	.01637
.0967	.98610	45,1	.00203		.98408	44,6	.01592
.0968	.98655	45,0	.00203		.98452	44,6	.01548
0969	98700	45,0	.00204		.98497	44,5	.01503
0.0970	8.98745	44,9	0.00204	:0,4	8.98541	.44 5	1.01459
	98790		.00204	0,4	.98586	44,5	
.0971		44,9				44,5	.01414
.0972	.98835	44,8	.00205		.98630	44,4	.01370
0973	.98880	44,8	.00205		.98675	44,4	.01325
.0974	.98925	44,7	,00206		.98719	44.3	.01281
0.0975	8.98969	44,7	0.00206	0,4	8.98763	44,3	1.01237
<b>.0</b> 976	.99014	44,6	.00207	-	.98807	44,2	.01193
.0977	.99059	44,6	.00207		.98852	44,2	.01148
.0978	.99103	44,5	.00207		, 98896	44,1	.01104
.0979	.99148	44,5	.00208		.98940	44,1	.01060
0.0980	8.99192	44,5	0.00208	0,4	8.98984	44,0	1.01016
.0981	.99237	44,4	.00209		.99028	44,0	.00972
.0982	.99281	44,4	.00209		.99072	43,9	.00928
.0983	99325	44,3	.00209	,	.99116	43,9	.00884
.0984	.99370	44,3	.00210		.99160	43,9	.00840
0.0985	8.99414	44,2	0.00210	0,4	8.99203	43,8	1.00797
<b>.0</b> 986	.99458	44,2	.00211		.99247	43,8	.00753
.0987	.99502	44,2	.00211		.99291	43.7	.00709
.0988	.99546	44,1	.00212		99335	43,7	.00665
.0989	.99590	44,1	.00212		.99378	43,6	.00622
0.0990	8.99634	44,0	0.00212	0,4	8.99422	43,6	1.00578
.0991	.99678	44,0	.00213		.99466	43.5	.00534
.0992	.99722	43,9	.00213		99509	43.5	.00491
.0993	.99766	43.9	.00214		-99553	43,4	.00447
.0994	.99810	43,8	.00214		.99596	43,4	.00464
0.0995	8.99854	43,8	0.00215	0,4	8.99639	43,4	1.00361
<b>.0</b> 996	.99898	43,7	.00215		.99683	43,3	.00317
.0997	.99941	43.7	00215		.99726	43,3	00274
.0998	99985	43,7	.00216	1 3	.99769	43,2	.00231
.0999	9.00029	43,6	,00216		.99812	43,2	.00188
0.1000	9.00072	43,6	0,00217	0,4	8,99856	43,1	1,00144
u	log tan gd u	ω Fn'	log sec gd u	, ω,,F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log ese gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.100	9.00072	435,7	0.00217	4,3	8.99856	431,4	1.00144
. IOI	.00506	431,5	.00221	4,4	9.00285	427,1	0.99715
.102	.00935	427,3	.00226	4,4	.00710	422,8	.99290
.103	.01360	423,1	.00230	4,5	.01131	418,7	.98869
.104	.01782	419,1	.00234	4,5	.01547	414,6	.98453
0.105	9.02199	415,1	0.00239	4,5	9.01960	410,6	0.98040
.106	.02612	411,2	.00244	4,6	.02368	406,7	.97632
.107	.03021	407,4	.00248	4,6	.02773	402,8	.97227
.108	.03427	403,7	.00253	4,7	.03174	399,0	.96826
.109	.03829	400,0	.00257	4,7	.03571	395,3	.96429
0.110	9.04227	396,4	0.00262	4,8	9.03965	391,6	0.96035
.III	.04621	392,9	.00267	4,8	.04354	388,1	95646
.112	.05013	389,4	.00272	4,8	.04741	384,5	95259
.113	.05400	386,0	.00277	4,9	.05124	381,1	.94876
.114	.05785	382,6	.00282	4,9	.05503	377.7	•94497
0.115	9.06165	379,3	0.00287	5,0	9.05879 .06252	374,3	0.94121 .93748
.116	.06543	376,1	.00292	5,0	.06252	371,1 367,8	.93746
.117	.06918	372,9 369,8	.00297	5,1 5,1	.06987	364,7	.93013
.110	.07289 .07657	366,7	.00302	5,1	.07350	361,5	.92650
0.120	9.08022	363,6	0.00312	5,2	9.07710	358,5	0.92290
.121	.08384	360,7	.00317	5,2	.08067	355,4	.91933
.122	.08744	357,7	00322	5,3	.08421	352,5	.91579
.123	.00100	354,9	.00328	5,3	.08772	349,5	.91228
.124	.09453	352,0	.00333	5,4	.09120	346,7	.90880
0.125	9.09804	349,2	0.00338	5,4	9.09466	343,8	0.90534
.126	.10152	346,5	.00344	5,4	.09808	341,1	.90192
.127	.10497	343,8	.00349	5,5	.10148	338,3	.89852
.128	.10840	341,1	.00355	5,5	.10485	335,6	.89515
.129	.11179	338,5	.00360	5,6	.10819	333,0	.89181
0.130	9.11517	336,0	0.00366	5,6	9.11151	330,3	0.88849
.131	.11851	333,4	.00372	5,7	.11480	327,8	.88520
.132	.12183	330,9	.00377	5. <i>7</i>	.11806	325,2	.88194
.133	.12513	328,5	.00383	5,7 5,8	.12130	322,7	.87870
.134	.12840	326,0	.00389	5,8	.12452	320,3	.87548
0.135	9.13165	323,7	0.00395	5,8	9.12771	317,8	0.87229
.136	.13488	321,3	.00400	5,9	.13087	315,4	.86913
.137	. 13808	319,0	.00406	5,9	.13402	313,1	.86598
.138	.14126	316,7	.00412	6,0	.13713	310,7	.86287
.139	.14441	314,5	.00418	6,0	.14023	308,5	.85977
0.140	9.14755	312,2	0.00424	6,0	9.14330	306,2	0.85670
.141	.15066	310,0	.00430	6,1	.14635	304,0	.85365
.142	·15375	307,9	.00436	6,1	.14938	301,8	.85062
.143	.15682	305,8	.00443	6,2	.15239	299,6	.84761
.144	.15986	303,7	.00449	6,2	.15538	297,5	.84462
0.145	9.16289	301,6	0.00455	6,3	9.15834	295,4.	0.84166
.146	.16589	299,6	.00461	6,3	.16128	293,3	.83872
.147	.16888	297,6	.00468	6,3	. 16420	291,2	.83580
.148	.17185	295,6	.00474	6,4	.16711	289,2	.83289
.149	17479	293,6	.00480	6,4	.16999	287,2	.83001
0.150	9.17772	291,7	0.00487	6,5	9.17285	285,2	0.82715
u	log tan gd u	∞ F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log csc gd u

u	log sinh u	ω F₀′	log cosh u	ω F <sub>0</sub> /	log tanh u	ω F <sub>0</sub> ′	log coth u
0.150	9.17772	291,7	0.00487	6,5	9.17285	285,2	0.82715
.151	.18063	289,8	.00493	6,5	.17569	283,3	.82431
.152	.18351	287,9	.00500	6,6	.17852	281,4	.82148
.153	.18638	286,1	.00506	6,6	.18132	279,5	.81868
.154	.18924	284,2	.00513	6,6		277,6	.81589
0.155	9.19207	282,4	0.00520	6,7	9.18687	275,8	0.81313
.156	.19488	280,6	.00526	6,7	.18962	273,9	.81038
.157	.19768	278,9	.00533	6,8	.19235	272,1	.80765
.158	.20046	277,1	.00540	6,8	. 19506	270,3	.80494
	.20323	275,4	.00547	6,8	. 19776	268,6	.80224
0.160	9.20597	273.7	0.00554	6,9	9.20044	266,9	0.79956
.161	.20870	272,1	.00560	6,9	.20310	265,1	.79690
.162	.21141	270,4	.00567	7,0	.20574	263,4	.79426
.163 .164	.21411 .21679	268,8 267,2	.00574	7,0 7,1	.20837	261,8 260,1	.79163 .78903
0.165	9.21945	265,6	0.00589	7,1	9.21357	258,5	0.78643
.166	.22210	264,0	.00596	7,1	.21614	256,9	.78386
.167	.22473	262,5	.00603	7,2	.21871	255,3	.78129
.168	.22735	260,9	.00610	7,2	.22125	253,7	.77875
	.22995	259,4	.00617	7,3	.22378	252,2	.77622
0.170	9.23254	257,9	0.00625	7,3	9.22629	250,6	0.77371
.171	.23511	256,4	.00632	7,4	.22879	249,1	.77121
.172	.23767	255,0	.00639	7,4	.23128	247,6	.76872
.173	.24021 .24274	253,5 252,1	.00647	7,4 7,4 7,5	.23374	246,1 244,6	.76626 .76380
0.175 .176	9.24525	250,7 249,3	0.00662 .00669 .00677	7,5 7,6 7,6	9.23864 .24106	243,2 241,7 240,3	0.76136 .75894 .75653
.177 .178 .179	.25024 .25271 .25517	247,9 246,5 245,2	.00684	7,6 7,7	.24347 .24587 .24825	238,9 237,5	.75413 .75175
0.180 .181 .182	9.25762 .26005 .26247	243,9 242,5	0.00700	7,7 7,8 7,8	9.25062 .25297	236,1 234,8	0.74938 •74703
.183	.26487	241,3 240,0 238,7	.00715 .00723 .00731	7,9 7,9	.25531 .25764 .25996	233,4 232,1 230,8	.74469 .74236 .74004
0.185	9.26965	237,4	0.00739	7,9	9.26226	229,5	0.73774
.186	.27201	236,2		8,0	.26454	228,2	.73546
. 187	.27437	234,9	.00755	8,0	.26682	226,9	.73318
. 188	.27671	233,7	.00763	8,1	.26908	225,7	.73092
. 189	.27904	232,5	.00771	8,1	.27133	224,4	.72867
0.190	9.28136	231,3	0.00779	8,2	9.27357	223,2	0.72643
.191	.28367	230,1		8,2	.27580	221,9	.72420
. 192	.28597	229,0	.00796	8,2	.27801	220,7	.72199
. 193	.28825	227,8	.00804	8,3	.28021	219,5	.71979
. 194	.29052	226,7	.00812	8,3	.28240	218,3	.71760
0.195	9.29278	225,5	0.00821	8,4	9.28458	217,2	0.71542
.196	.29503	224,4		8,4	.28674	216,0	.71326
.197	.29727	223,3	.00837	8,4	.28890	214,9	.71110
.198	.29950	222,2	.00846	8,5	.29104	213,7	.70896
.199	.30172	221,1	.00854	8,5	.29317	212,6	.70683
0.200	9.30392	220,0	0.00863	8,6	9.29529	211,5	0.70471
U	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

			<del></del>				
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log eoth u
0.200	9.30392	220,0	0.00863	8,6	9.29529	211,5	0.70471
.201	.30612	219,0	.00871	8,6	.29740	210,4	.70260
.202	.30830	217,9	.00880	8,7	.29950	209,3	.70050
.203	.31047	216,9	.00889	8,7	.30159	208,2	.69841
.204	.31264	215,8	.00897	8,7	.30366	207,1	.69634
0.205	9.31479	214,8	0.00906	8,8	9.30573	206,0	0.69427
.206	.31693	213,8	.00915	8,8	.30778	205,0	.69222
.207	.31907	212,8	.00924	8,9	.30983	203,9	.69017
.208	.32119	211,8	.00933	8,9	.31186	202,9	.68814
.209	.32330	210,8	.00942	.8,9	.31389	201,9	.68611
0.210	9.32541	200,8	0.00051	.9,0	9.31590	200,8	0.68410
.211	32750	208,9	<b>.0</b> 0960	9,0	31790	199,8	.68210
.212	.32958	207,9	.00969	9,1	.31990	198,8	.68010
.213	.33166	207,0	.00978	9,1	.32188	197,9	.67812
.214	-33372	206,0	.00987	9,2	.32385	196,9	.67615
0.215	9.33578	205,1	0.00996	9,2	9.32582	195,9	0.67418
.216	.33783	204,2	.01005	9,2	32777	195,9	.67223
217	.33986	203,3	.01015	9,3	32972	194,9	.67028
,218	.34189	202,4	.01013	9,3	33165	193,0	.66835
.219	34391	201,5	01033	9,3 9,4	.33358	193,0	.66642
ومدر	•34391	روداند	101033	914	•33350	192,1	.00042
0.220	9.34592	<b>200,</b> 6	0.01043	. 9,4	9.33549	191,2	0.66451
.221	.34792	199,7	.01052	9,4	.33740	190,3	,66260
.222	34991	198,8	.01062	9,5	.33930	189,3	.66070
.223	,35190	198,0	.01071	9,5	.34119	188,4	.65881
.224	+353 <sup>8</sup> 7	197,1	.01081	9,6	•34307	187,5	.65693
0.225	9.35584	196,3	0.01090	9,6	9.34494	186,7	0.65506
.226	35780	195,4	.01100	9,7	.34680	185.8	.65320
.227	35975	194,6	.01109	9,7	34865	184,9	.65135
.228	<b>.3</b> 6169	193,8	.01119	9.7	.35050	184,0	.64950
.229	.36362	193,0	.01129	9,8	•35234	183,2	.64766
0.230	9.36555	192,1	0.01139	9,8	9.35416	182,3	0.64584
231	36747	191,3	.01149	9,9	35598	181,5	.64402
.232	36938	190,5	.01158	9,9	35779	180,6	.64221
.233	.37128	189,8	.01168	9,9	35959	179,8	.64047
.234	.37317	189,0	.01178	10,0	.36139	179,0	.63861
0.235	9,37506	188,2	0.01188	10,0	9.36317	178,2	0.63683
.236	37694	187,4	.01198	10,0	36495	176,2	.63505
.237	.37881	186,7	.01208	10,1	36672	176,6	.63328
.238	.38067	185,9	.01219	10,1	36848	175,8	.63152
.239	.38252	185,2	.01229	10,2	37024	175,0	.62976
0.040	9.38437	184,4	0.07000	***	0 0 0	754.0	0.62802
0.240	38621		0.01239	10,2	9.37198	174,2	62628
.241	.38805	183,7 183,0	01249	10,3	•37372	173,4	.62455
.242			.01259	10,3	•37545	172,6	.62283
.243	.38987 .39169	182,2 181,5	.012/0	10,4 10,4	·37717 ·37889	171,9 171,1	.62111
1	•09109		.51265	.10,4		-/-,1	,52111
0.245	9.39350	180,8	0.01291	10,4	9.38060	170,4	0.61940
.246	.39531	180,1	.01301	10,5	.38230	169,6	.61770
.247	39710	179,4	.01312	10,5	38399	168,9	.61601
.248	.39889	178,7	.01322	10,6	.38567	168,1	.61433
.249	.40068	178,0	*OI333	10,6	·3 <sup>8</sup> 735	167,4	.61265
0.250	9.40245	177,3	0.01343	10,6	9.38902	166,7	0.61098
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω, F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u ·	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.250	9.40245	177,3	0.01343	10,6	9.38902	166,7	0.6109
.251	.40422	176,6	.01354	10,7	39069	166,0	.6093
.252	40599	176,0	.01365	10,7	39234	165,3	.6076
.253	40774	175,3	.01375	10,8	•39399	164,5	.6060
.254	.40949	174,6	.01386	10,8	-39563	163,8	.6043
0.255	9.41124	174,0	0.01397	10,8	9.39727	163,1	0.6027
.256	.41297	173,3	.01468	10,9	.39890	162,5	.6011
.257	.41470	172,7 172,0	.01419 .01430	10,9	.40052	161,8 161,1	.5994
.259	.41643 .41814	172,0	.01441	II,0 II,0	.40213 .40374	160,4	• 5978 • 5962
0.260	9.41986	170,8	0.01452	11,0	9.40534	159,7	0.5946
.261	.42156	170,2	.01463	11,1	.40693	159,1	•5930
.262	.42326	169,5	.01474	11,1	.40852	158,4	.5012
.263	.42495	168,9	.01485	11,2	.41010	157,8	.5899
.264	.42564	168,3	.01496	11,2	.41168	157,1	.5883
0.265	9.42832	167,7 167,1	.01519	11,2 11,3	9.41324 .41480	156,5 155,8	0.5867 .5852
.267	.43166	166,5	.01530	11,3	.41636	155,2	.5836
268	•43332	165,0	.01541	11,4	41791	154,5	.5820
.269	.43498	165,3	.01553	11,4	.41945	153,9	.5805
0.270	9.43663	164,7	0.01564	11,4	9.42099	153,3	0.5790
.271	.43827	164,2 163,6	.01576	11,5	.42252	152,7	5774
.272	.43991 .44154	163,0	.01587	11,5	.42404 .42556	152,1 151,4	•5759 •5744
.274	.44317	162,4	.01610	11,6	,42707	150,8	.5729
0.275	9 44479	161,9	0.01622	11,7	9.42857	150,2	0.5714
.276	.44641	161,3	.01634	11,7	.43007	149,6	. 5699
.277	.44802	160,8	.01645	11,7	.43157	149,0	. 5682
.278 .279	.44962 .45122	160,2 159,7	.01657 .01669	11,8 11,8	.43305 .43454	148,5 147,9	. 5669 . 5652
0.280	9.45282	159,1	0.01681	11,9	9.43601	147,3	0.5639
.281	.45441	158,6	.01693	11,9	.43748	146,7	.562
.282	·45599	158,1	.01704	11,9	.43895	146,1	.5610
.283	•45757	157,5	.01716	12,0	44040	145,6	-559
.284	.45914	157,0	.01728	12,0	.44186	145,0	.558
0.285	9.46071 .46227	156,5 156,0	0.01740 .01752	12,1	9.44330	144,4	0.556
.287	.46383	155,5	.01765	12,1 12,1	·44475 ·44618	143,9 143,3	• 5552 • 5538
.288	.46538	154,9	.01777	12,2	.44761	142,8	.552
.289	.46693	154,4	.01789	12,2	.44964	142,2	• 5500
0.290	9.46847	153,9	0.01801	12,3	9.45046	141,7	0.549
.291	.47001	153,4	.01813	12,3	.45187	141,1	.5481
.292 .293	47154	152,9	.01826 .01838	12,3	.45328 .45468	140,6	. 546
.293	.47306 .47459	152,4 152,0	.01851	12,4 12,4	.45608	140,1 139,5	•5453 •5439
0.295	9.47610	151,5	0.01863	12,5	9.45747	130,0	0.5425
.296	.47762	151,0	.01875	12,5	.45886	138,5	.541
.297	47912	150,5	.01888	12,5	.46024	138,0	• 5397
.298 .299	.48063 .48212	150,0 149,6	.01900	12,6 12,6	.46162 .46299	137,5	. 5383 •5370
0.300	9.48362	149,1	0.01926	12,7	9.46436	136,4	0.5350
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω F <sub>0</sub> /	log sin gd u	ω F <sub>0</sub> ′	log ese gd

Logarithms of Hyperbolic Functions.

			Managa ar a la maraga	, e diseifé y entrephisé es	prijestive pa		Alakaharan 12.	mineral de la companya de la company	
<u> </u>	log sinh	U ω F <sub>0</sub>	log cosh	u wF	o'	log tanh	u ω F <sub>0</sub>	log cot	h u
0.3			9,1 0.019	26 I	2,7	9.464	26 72	6,4 0.53	
	.485		8,6 .019	38 I	2,7	.465	-		
	.486		8,2 .019	51 I	2,7	.4670			428
• 3			7,7 .019		2,8	.4682	1 0.	,	292
.3	04 .489	054 142	7,2 .019	77   1:	2,8	.4697			
0.3	>   - 1-		6,8 0.019	89 1:	2,8	9.4711	.		
-34			.020		2,9	.4724	1	,	
•30					2,9	•4737	- 1		755
•30	1 120		5,4 .020		3,0	.4751			
•30	09 .496	85   145	5,0 .020		3,0	.4764			409 356
0.31		30 144	,6 0.020	54 12	,0	0 4777		•	
.31	1 ,	74   144				9.4777			
.31		18   143				.4790 .4803	.		
.31		51 143	.0200	04 13		.4816			
•31	4 5040	04   142	.0210	7 13		4829			
0.31	5 9.5054	7 142	4 0.0212	0 70					
.31	6 .5068					9.4842		_	
.31		1 141				.48556 .48682			
.31		2 141,				.48812			
•31	9 .5111	3 140,	7 .0217	3 13,		.48940			
0.320	0 9.5125	4 140,	3 0.0218	7	.			-	
.32	.5139	4 139,		-0,		9.49067			
.322						49194	1 .,		
.323		3   139,	I .0222			•49320		1	
.324	4 .5181:	2 138,	7 .0224			•49446 •49571			
0.325	9.51950	138,	0.02252	1 13,0	5			.	-
.326						9.49696	124,7	"	
.327	.52220	5 137,5	.02282			49820	124,2		
.328		3 137,	.02295	1 ~0,7	3	·49944 ·50068	123,8	"	
.329	.52500	136,7	02309	13,8	<b>š</b>	.50191	123,4		
0.330	9.52637	136,3	0.02323	700	,				-
.331				, ,,		9.50314	122,5		
.332	.52909			13,9		.50436	122,1	100-	
•333	53044			13,9		.50558	121,7	1277	
•334	•53179		.02379	14,0		.50679 .50800	121,3 120,8	1,00	
0.335	9.53314	134,5	0.02393		1	_	100		
.336	53448	134,1	.02407	14,0		9.50921	120,4		
•337	.53582	133,7	.02421	14,1		.51041	120,0	.48959	)
.338	•53715	133,3	.02435	14,1		.51161	119,6		)
•339	.53849	133,0		14,1		.51281	119,2 118,8	.48719	
0.340	9.53981	132,6	0.02463	1					
.341	54114	132,3	.02478	14,2	!	9.51518	118,4	0.48482	
.342	.54246	131,9	.02492	14,3		.51636	118,0	.48364	
•343	-54378	131,5	.02506	14,3		.51754	117,6	48246	
•344	• 54509	131,2	.02520	14,3 14,4	1	.51872	117,2 116,8	.48128	
0.345	9.54640	130,8	0.00505				•		H
.346	•54771	130,5	0.02535	14,4	. \$	0.52105	116,4	0.47895	
•347	54901	130,1	.02564	14,5		.52221	116,0	•47779	
•348	.55031	129,8	.02578	14,5		•52337	115,7	.47663	
•349	.55161	129,5	.02593	14,6	1	·52453 ·52568	115,3 114,9	·47547 ·47432	
0.350	9.55290	129,1	0.02607	14,6	9	. 52682	114,5	0.47318	
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′					-
MITURANI			- ya yu u	- 10	iog s	sin gd u	ω F <sub>0</sub> ′	log csc gd u	

ı	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω <b>F</b> <sub>0</sub> ′	log coth u
	0.350	9.55290	129,1	0.02607	14,6	9.52682	114,5	0.47318
H	.351	55419	128,8	.02622	14,6	.52797	114,1	.47203
	.352	-55547	128,4	.02637	14,7	.52911	113,7	47089
	•353	. 55676	128,1	.02651	14,7	.53024	113,4	.46976
	•354	.55804	127,8	.02666	14,8	•53137	113,0	.46863
	0.355	9.55931	127,4	0.02681	14,8	9.53250	112,6	0.46750
	.356	. 56059	127,1	.02696	14,8	•53363	112,3	.46637
	•357	.56185	126,8	.02711	14,9	•53475	111,9	.46525
	.358	.56312	126,5	.02726	14,9	.53586	111,5	.46414 .46302
	359	.56438	126,1	.02740	15,0	.53698	111,2	
	0.360	9.56564 .56690	125,8	0.02755	15,0	9.53809 .53919	110,8	0.46191 .46081
	.361 .362	.56815	125,5 125,2	.02786	15,0 15,1	.54030	110,5	.45970
	.363	56940	124,8	.02801	15,1	54140	109,7	.45860
	.364	.57065	124,5	.02816	15,1	54249	109,4	.45751
	0.365	9.57189	124,2	0.02831	15,2	9.54358	109,0	0.45642
	366	.57313	123,9	.02846	I 5,2	54467	108,7	.45533
Ш	.367	•57437	123,6	.02861	15,3	54576	108,3	.45424
	.368	.57561	123,3	.02877	15,3	.54684	108,0	.45316
	.369	. 57684	123,0	.02892	15,3	.54792	107,7	.45208
	0.370	9.57807	122,7	0.02907	15,4	9.54899	107,3	0.45101
ı	371	•57929	122,4	.02923	15,4	.55006	107,0	•44994
	.372	.58051	122,1	.02938	15,4	.55113	106,6	.44887
	•373	.58173	121,8	.02954	15,5	.55220	106,3 106,0	.44780
ı	•374	.58295	121,5	.02969	15,5	. 55326	100,0	.44674
	0.375	9.58416	121,2	0.02985	15,6	9.55432	105,6	0.44568
I	.376	•58537	120,9	.03000	15,6	•55537		.44463
ı	•377	.58658	120,6	.03016	15,6	.55642	105,0	.44358
	378	.58779 .58899	120,3 120,0	.03031	15,7	.55852	104,6 1 <b>04,3</b>	.44253 .44148
۱	•379		1		1 1			4
1	0.380	9.59019	119,7	0.03063	15,8	9.55956	104,0	0.44044
ı	.381	.59138	119,5	.03079	15,8	.56059	103,7	.43941
П	.382	.59257	119,2	.03095	15,8	.56163 .56266	103,3	.43837
	. 383 . 384	•59377 •59495	118,9	.03110	15,9	.56369	103,0 102,7	·43734 ·43631
I						A STATE	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	0.385	9.59614	118,3	0.03142	15,9	9.56472	102,4	0.43528
1	.386	-59732	118,0	.03158	16,0	.56574	102,1	.43426
	.387 .388	.59850 .59967	117,8	.03174	16,0 16,1	.56676 .56777	101,8	•43324
I	.389	.60085	117,3	.03206	16,1	.56879	101,4	.43223
I					l			
	0.390	9.60202	116,9	0.03222	16,1	9.56980	100,8	0.43020
	391	.60319	116,7	.03238	16,2	.57080	100,5	.42920
	.392	.60435	116,4	.03255	16,2	.57181	100,2	.42819
	393	.60551 .60668	116,1	.03271	16,2 16,3	.57281	99,9 99,6	.42719
	•394	7 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1	1		100		
	0.395	9.60783	115,6	0.03303	16,3	9.57480	99.3	0.42520
	.396	.60899	115,3	.03320	16,4 16,4	57579	99,0	.42421
	·397 ·398	.61014	115,1	.03336	16,4	.57678 .57776	98,7 98,4	.42322
	•399	.61244	114,6	.03369	16,5	57875	98,1	42125
	0.400	9.61358	114,3	0.03385	16,5	9 57973	97,8	0.42027
	<u>·</u>	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u
	<u>-</u>			Janus Schlieblandig Kopes				1

Logarithms of Hyperbolic Functions.

		A STATE OF THE PARTY OF THE PAR	A Parent Cartain Cartain Cartain		TOTAL MICH. BUILDING		ACCUPATION OF THE PROPERTY OF THE PARTY OF T
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.400	9.61358	114,3	0.03385	16,5	9.57973	97,8	0.42027
.401	.61472	114,0	.03402	16,5	58070	97,5	.41930
.402	.61586	113,8	.03419	16,6	.58168	97,2	.41832
.403	.61700	113,5	.03435	16,6	.58265	96,9	.41735
.404	.61813	113,3	.03452	16,6	.58361	96,6	.41639
N	campus anno i angolini cartit						
0.405	9.61926	113,0	0.03468	16,7	9.58458	96,3	0.41542
.406	.62039	112,8	.03485	16,7	58554	96,1	.41446
407	,62152	112,5	,03502	16,8	.58650	95,8	.41350
.408	.62254	112,3	.03519	16,8	.58746	95,5	.41254
.409	.62376	112,0	.03535	16,8	.58841	95,2	.41159
0.410	9.62488	111,8	0.03552	16,9	9.58936	94,9	0.41064
.411	.62600	111,6	.03569	16,9	.59031	94,6	.40969
.412	.62711	111,3	.03586	16,9	.59125	94,4	.40875
.413	.62823	111,1	.03603	17,0	.59220	94,1	.40780
.414	.62934	110,8	.03620	17,0	59314	93,8	.40686
0.415	9.63044	110,6	0.03637	17,1	9.59407	93,5	0.40593
.416	63155	110,4	.03654	17,1	.59501	93,3	.40499
.417	.63265	110,1	03671	17,1	59594	93,0	.40406
.418	.63375	109,9	.03688	17,2	.59687	92,7	.40313
419	.63485	109,6	.03706	17,2	59779	92,4	.40221
0.420	9.63594	109,4	0.03723	17,2	9.59871	92,2	0.40129
.421	.63704	109,2	.03740	17,3	.59963	91,9	.40037
.422	.63813	109,2	.03757	17,3	.60055	91,6	39945
.423	.63922	108,7	.03775	17,3	.60147	91,4	39853
.424	.64030	108,5	.03792	17,4	60238	91,1	.39762
1.	. •		-		_		
0.425	9.64139	108,3	0.03810	17,4	9.60329	90,8	0.39671
.426	.64247	108,0	.03827	17,5	.60420	90,6	.39580
.427	.64355	107,8	.03844	17,5	.60510	90,3	39490
.428	.64462	107,6	.03862	17,5	.60600	90,1	.39400
.429	.64570	107,4	.03880	17,6	.60690	89,8	.39310
0.430	9.64677	107,1	0.03897	17,6	9.60780	89,6	0.39220
.431	.64784	105,9	.03915	17,6	.60869	89,3	.39131
.432	64891	105,7	.03932	17,7	.60959	89,0	.39041
•433	64997	106,5	.03950	17,7	.61047	88,8	.38953
•434	.65104	106,3	.03968	17,7	.61136	88,5	.38864
0.435	9.65210	106,0	0.03986	17,8	9.61224	88,3	0.38776
.436	.65316	105,8	.04003	17,8	.61313	88,0	38687
.437	65422	105,6	.04021	17,9	.61401	87,8	.38599
.438	.65527	105,4	.04039	17,9	.61488	87,5	.38512
•439	.65633	105,2	.04057	17,9	.61576	87,3	.38424
0.440	9.65738	105,0	0.04075	18,0	9.61663	87,0	0.38337
.441	.65843	104,8	.04093	18,0	.61750	86,8	.38250
.442	65947	104,6	.04111	18,0	.61836	86.5	.38164
•443	.66052	104,4	.04129	18,1	.61923	86,3	.38077
•444	.66156	104,2	.04147	18,1	.62009	86,1	.37991
0.445	0.66260	104,0	0.04165	18,1	9.62095	85,8	0.37905
.446	.66364	103,7	.04183	18,2	.62180	85,6	37820
447	.66468	103,5	.04202	18,2	.62266	85,3	37734
.448	.66571	103,3	.04220	18,3	.62351	85, r	37649
.449	.66674	103,1	04238	18,3	.62436	84,9	.37564
0.450	9.66777	102,9	0.04256	18,3	9.62521	84,6	0.37479
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
<u>L </u>						-	_

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.450	9.66777	102,9	<b>0</b> .04256	18,3	9.62521	84,6	0.37479
.451	.66880	102,7	04275	18,4	.62605	84,4	37395
.452	.66983	102,5	.04293	18,4	.62690	84,1	.37310
453	67085	102,3	.04312	18,4	.62774	83,9	.37226
•454	.67187	102,1	.04330	18,5	62857	83,7	.37143
	9.67289	101,9	0.04348	18,5	9.62941	83,4	0.37059
0.455 .456	.67391	101,8	.04367	18,5	.63024	83,2	.36976
457	.67493	101,6	.04385	18,6	.63107	83,0	.36893
.458	.67594	101,4	.04404	18,6	.63190	82,8	.36810
.459	67696	101,2	.04423	18,6	.63273	82,5	.36727
0.460	9.67797	101,0	0.04441	18,7	9.63355	82,3	0.36645
.461	.67898	100,8	.04460	18,7	.63438	82,1	.36562
.462	.67998	100,6	.04479	18,7	.63519	81,8	.36481
.463	.68099	100,4	.04498	18,8	.63601	81,6	36399
.464	.68199	100,2	.04516	18,8	.63683		36317
	9.68299	T00.0	0.04525			4	0.36236
<b>0.</b> 465	.68399	100,0 99,8	0.04535 -04554	18,9 18,9	9.63764 .63845	81,2 81,0	.36155
467	.68499	99,8	-04573	18,9	.63926	80,7	.36074
468	.68599	99,7	.04592	19,0	.64007	80,5	35993
.469	.68698	99,3	.04592	19,0	64087	80,3	.35913
	9.68797	99,1	0.04630	70.0	9.64167		0.35833
0.470	.68896	98,9	.04649	19,0	64247		
.471		98,7	.04649	19,1		79.9	•35753
472	.68995 .69094	98,6	.04687	19,1	.64327	79,6	.35673
•473	.69192	98,4	.04706	19,1 19,2	.64406 .64486	79,4 79,2	·35594 ·35514
•474				19,2			
0.475	9.69290	98,2	0.04726	19,2	9.64565	79,0	0.35435
. 476	.69388	98,0	.04745	19,2	.64644	78,8	.35356
•477	.69486	97,8	.04764	19,3	.64722	78,6	.35278
.478	.69584	97.7	.04783	19,3	.64801	78,4	.35199
•479	.69682	97,5	.04803	19,3	.64879	78,2	.35121
0.480	9.69779	97,3	0.04822	19,4	9.64957	77,9	0.35043
.481	.69876	97,1	.04841	19,4	.65035	77,7	.34965
.482	.69973	97,0	.04861	19,4	.65113	77,5	.34887
.483	.70070	96,8	.04880	19,5	.65190	77,3	.34810
.484	.70167	96,6	.04900	19,5	.65267	<i>77</i> ,1	•34733
0.485	9.70264	65,5	0.04919	19,6	9.65344	76,9	0.34656
.486	.70360	96,3	.04939	19,6	.65421	76,7	•34579
.487	.70456	96,1	<b>.0</b> 4959	19,6	.65498	76,5	.34502
.488	.70552	95,9	.04978	19,7	.65574	76,3	.34426
.489	.70648	95,8	.04998	19,7	.65650	76,1	.34350
0.490	9.70744	95,6	0.05018	19,7	9.65726	75,9	0.34274
.491	.70839	95,4	.05037	19,8	.65802	75,7	.34198
.492	.70935	95,3	.05057	19,8	.65878	75,5	.34122
.493	.71030	95,1	.05077	19,8	.65953	75,3	.34047
•494	.71125	95,0	.05097	19,9	.66028	75,1	.33972
0.495	9.71220	94,8	0.05117	19,9	9.66103	74,9	0.33897
.496	.71315	94,6	.05137	19,9	.66178	74,7	.33822
•497	.71409	94,5	.05156	20,0	.66253	74,5	•33747
.498	.71503	94,3	.05176	20,0	.66327	74,3	.33673
-499	.71598	94,1	.05196	20,0	.66401	74,1	•33599
0.500	9.71692	94,0	0.05217	20,1	9.66475	73,9	0.33525
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F₀′	log csc gd u

Logarithms of Hyperbolic Functions.

:					en el estilla contrata de la contrata del contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del contrata de la contrata del con		namin Jart Stoty, stoty is to in-
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.50		94,0	0.05217	20,1	9.66475	73,9	0.33525
.50		93,8	.05237	20, I	.66549 .66623	73.7	·33451
.50		93,7	.05257	20,1 20,2	.66696	73,5	33377
.50		93.5 93.3	.05297	20,2	.66769	73,3 73,1	.33304 .33231
30		93,3	.03297	20,2	, ,	/3,1	
0.50		93,2 93,0	0.05317 .05338	20,2 20,3	9.66842 .66915	72,9 72,8	0.33158
.50		92,9	.05358	20,3	.66988	72,6	.33012
50		92,7	.05378	20,3	.67060	72,4	.32940
.50		92,6	.05399	20,4	.67133	72,2	.32867
0.51	0 9.72624	92,4	0.05419	20,4	9.67205	72,0	0.32795
.51		92,3	.05439	20,4	.67277	71,8	.32723
.51	2 .72808	92,1	.05460	20,5	.67348	71,6	.32652
.51		92,0	.05480	20,5	.67420	71,5	.32580
.51	4 .72992	91,8	.05501	20,5	.67491	71,3	.32509
0.51		91,7	0.05521	20,6	9.67562	71,1	0.32438
.51		91,5	.05542	20,6	.67633 .67704	70,9	.32367
.51	7 .73267 8 .73358	9I,4 9I,2	.05563 .05583	20,6 20,7	.67775	70,7 70,5	.32296
.51		91,2	05604	20,7	.67845	70,3	.32155
0.52	0 9.73540	90,9	0.05625	20,7	9.67916	70,2	0.32084
.52		90,8	.05645	20,8	.67986	70,0	.32014
.52		90,6	.05666	20,8	.68056	69,8	.31944
.52		90,5	.05687	20,8	.68125	69,6	.31875
.52		90,3	.05708	20,9	.68195	69,5	.31805
0.52		90,2	0.05729	20,9	9.68264	69,3	0.31736
.52		90,0	.05750	20,9	68333	69,1	.31667
.52		89,9	.05771	21,0	.68402	68,9	.31598
.52		89,8	05792	21,0	.68471	68,7 68,6	.31529 .31460
•52	9 .74353	89,6	.05813	21,0	68540	·	.31400
0.53		89,5	0.05834	21,1	9.68608	68,4	0.31392
•53		89,3	.05855	21,1	.68677	68,2	.31323
•53	2 .74621	89,2	.05876	21,1	.68745	68,0	.31255
•53		89,1 88,9	.05897	2I,2 2I,2	.68813 .68880	67,9 67,7	.31187
-53				21,2			_
0.53		88,8	0.05940	21,2	9.68948	67,5	0.31052
•53		88,6	.05961	21,3	.69016	67,4	.30984
•53	7 .75065	88,5 88,4	.05982	21,3	.69083	67,2 67,0	.30917
•53 •53		88,2	.06025	21,3 21,4	.69217	66,9	.30783
0.54		88,1	0.06046	21,4	9.69284	66,7	0.30716
.54		88,0	.06068	21,4	.69350	66,5	.30650
.54		87,8	.06089	21,5	.69417	66,3	.30583
54	0 57704	87,7	.06111	21,5	.69483	66,2	.30517
•54		87,6	.06132	21,5	.69549	66,0	.30451
0.54		87,4	0.06154	21,6	9.69615	65,9	0.30385
•54		87,3	.06175	21,6	.69681	65,7	.30319
•54		87,2	.06197	21,6	.69746	65,5	30254
. 54 . 54		87,0 86,9	.06219 .06240	21,7 21,7	.69812 .69877	65,4 65,2	.30188
0.55		86,8	0.06262	21,7	9.69942	65,0	0.30058
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω F <sub>0</sub> '	log sin gd u	ω F <sub>0</sub> '	log csc gd u
<u> </u>	iog tan gu u	" "0	ION SEC DO D	_ <b>~ F</b> 0	ioy ain yu u	0	.og cec ga a

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.550	9.76204	86,8	0.06262	21,7	9.69942	65,0	0.30058
.551	.76291	86,6	.06284	21,8	70007	64,9	.2999
	.76377	86,5	-06306	21,8	70072	64,7	.2992
.552		86,4	.06327	21,8	.70137	64,5	.2986
•553	.76464		.00327	21,0	.70201		
•554	.76550	86,3	.00349	21,9	./0201	64,4	.2979
0.555	9.76636	86,1	0.06371	21,9	9.70265	64,2	0.2973
.556	.76722	86,0	.06393	21,9	.70329	64,1	.2967
• 557	.76808	85,9	.06415	22,0	.70393	63,9	.2960
. 558	.76894	85,7	.06437	22,0	.70457	63,7	.2954.
•559	.76980	85,6	.06459	22,0	.70521	63,6	.2947
0.560	9.77065	85,5	0.06481	22,1	9.70584	63,4	0.2941
.561	.77151	85,4	.06503	22,1	70648	63,3	.2935
.562	.77236	85,2	.06525	22,1	70711	63,1	.2928
.563	.77321	85,1	.06547	22,2	70774	63,0	.2922
.564	.77406	85,0	.06570	22,2	.70837	62,8	.2916
				- 1 1 feb			
0.565	9.77491	<b>8</b> 4,9 84,8	0.06592 .06614	22,2 22,3	9.70900 .70962	62,7 62,5	.2910 .2903
.566	77576	04,0	.06636		.70902	62,3	.2897
.567	.77661	84,6		22,3	.71025	62,2	.2891
.568 .569	.77745 .77830	84,5 84,4	.06659 .06681	22,3 22,3	.71149	62,0	.2885
		programmed by					Miller (s. 2001). Bill
0.570	9.77914	84,3	0.06703	22,4	9.71211	61,9	0.2878
.571	.77998	84,2	.06726	22,4	.71273	61,7	.2872
.572	.78083	84,0	.06748	22,4	.71334	61,6	.2866
.573	.78167	83,9	.06771	22,5	.71396	61,4	.2860
•574	.78250	83,8	.06793	22,5	.71457	61,3	.2854
0.575	9.78334	83,7	0.06816	22,5	9.71519	61,1	0.2848
.576	.78418	83,6	06838	22,6	.71580	61,0	.28420
577	.78501	83,4	.06861	22,6	.71641	60,8	.2835
·577 ·578	.78585	83,3	.06883	22,6	.71701	60.7	.2829
.579	.78668	83,2	.06906	22,7	.71762	60,5	.2823
o.58o	9.78751	83,1	0.06329	22,7	9.71822	60,4	0.2817
	9./0/51	03,1			.71883	60,2	.2811
.581	.78834	83,0	.06951	22,7		60.7	
.582	.78917	82,9	.06974	22,8	71943	60,1	.2805
.583	.79000	82,7	.06997	22,8	.72003	60,0	.2799
. 584	.79082	82,6	.07020	22,8	.72063	59,8	.2793
0.585	9.79165	82,5	0.07043	22,9	9.72123	59,7	0.2787
.586	.79247	82,4	.0 <del>7</del> 065	22,9	.72182	59,5	.2781
. 587	.79330	82,3	.07088	22,9	.72242	59,4	.2775
. 588	.79412	82,2	.07111	23,0	.72301	59,2	.2769
.589	•79494	82,1		23,0	.72360	59,1	.2764
0.590	9.79576	82,0	0.07157	23,0	9.72419	58,9	0.2758
.591	.79658	81,8		23,0	.72478	58,8	.2752
.592	.79740	81,7	.07203	23,1	72537	58,7	.2746
.593	.79822	81,6		23,1	72595	58,5	.2740
.594	.79903	81,5	.07249	23,1	.72654	58,4	.2734
0.595	9.79985	81,4	0.07273	23,2	9.72712	58,2	0.2728
	.80066	81,3	.07296	23,2	.72770	58,1	.2723
.596	80147	81,2			.72828	58,0	.2717
597	.80147	Q1,2	.07319	23,2	.72886	57,8	.2711
.598 .599	.80320	81,1 81,0	.07342	23,3 23,3	72944	57,0	.2711
0.600	9.80390	80,9	0.07389	23,3	9.73001	57,5	0.2699
				ω F <sub>0</sub> ′			
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u		log sin gd u	ω F <sub>0</sub> ′	log csc gd

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.600	9.80390	80,9	0.07389	23,3	9.73001	57,5	0.26999
.601	.80471	80,8	.07412	23,4	.73059	57,4	.26941
.602	.80552	80,7	.07436	23,4	.73116	57.3	.26884
.603	.80632	80,5 80,4	.07459	23,4	.73173	57,1	.26827
.604	.80713		.07482	23,4	.73231	57,0	.20/09
0.605	9.80793	80,3 80,2	0.07506	23,5	9.73287	56,9	0.26713 .26656
.606 .607	.80874 .80954	80,2 80,1	.07529	23,5 23,5	.73344 .73401	56,7 56,6	.26599
.608	.81034	80,0	.07576	23,6	.73457	56,5	.26543
.609	.81114	79,9	.07600	23,6	.73514	56,3	.26486
0.610	9.81194	79,8	0.07624	23,6	9.73570	56,2	0.26430
.611	.81273	79,7	07647	23,7	.73626	56,0	.26374
.612	.81353	79,6	.07671	23,7	.73682	55,9	.26318
.613	.81433	79,5	.07695	23,7	73738	55,8	.26262
.614	.81512	79,4	.07718	23,8	•73794	55, <i>7</i>	.26206
0.615	9.81591	79,3	0.07742	23,8	9.73849	55,5	0.26151
.616	.81671	79,2	.07766	23,8	73905	55,4	.26095 .26040
.617 .618	.81750 .81829	79,1 79,0	.07790 .07814	23,8 23,9	.73960 .74015	55,3 55,1	.25985
.619	.81908	78,9	.07838	23,9	.74070	55,0	.25930
0.620	9.81987	78,8	<b>0.07</b> 861	23,9	9.74125	54,9	0.25875
.621	.82065	78,7 78,6	.07885	24,0	.74180	54,7	.25820
.622	.82144	78,6	.07909	24,0	.74235	54,6	.25765
.623	.82223	78,5	07933	24,0	.74289	54,5	.25711
.624	.82301	78,4	.07957	24,1	•74344	54,3	.25656
0.625	9.82380	78,3	0.07982	24,1	9.74398	54,2	0.25602
.626	.82458	78,2	.08006	24,1	•74452	54,1	.25548
.627 .628	.82536 .82614	78,1 78,0	.08030 .08054	24,I 24,2	.74506 .74560	54,0 53,8	.25494
.629	82692	77,9	.08078	24,2	.74614	53,7	.25440 .25386
0.630	9.82770	77,8	0.08102	24,2	9.74667	53,6	0.25333
.631	.82848	77,7	.08126	24,3	74721	53,5	.25279
.632	.82925	77,6	.08151	24,3	•74774	53,3	.25226
.633	.83003	77,5	.08175	24,3	74828	53,2	.25172
.634	.83080	77,4	.08200	24,4	.74881	53,1	.25119
0.635	9.83158	77,3	0.08224	24,4	9.74934	53,0	0.25066
.636	.83235	77,3	.08248 .08273	24,4	.74987	52,8	.25013
.637 .638	.83312 .83389	77,2 77,1	.082/3	24,4 24,5	.75040 .75092	52,7 52,6	.24960 .24908
.639	.83466	77,0	.08322	24,5	.75145	52,5	.24855
0.640	9.83543	76,9	0.08346	24,5	9.75197	52,3	0.24803
.641	.83620	76,8	.08371	24,6	.75249	52,2	.24751
.642	.83697	76,7	.08395	24,6	.75302	52,1	.24698
.643	.83774	76,6	.08420	24,6	.75354	52,0	.24646
.644	.83850	76,5	.08445	24,7	.75406	51,9	•24594
0.645	9.83927	76,4	0.08469	24,7	9.75457	51,7	0.24543
.646	84003	76,3 76,2	.08494 .08519	24,7	.75509	51,6	.24491
.647 .648	.84079 .84155	76,2 76,1	.08543	24,7 24,8	.75561 .75612	51,5	.24439 .24388
.649	.84232	76,1	.08568	24,8 24,8	.75663	51,4 51,3	.24337
0.650	9.84308	76,0	0.08593	24,8	9.75715	51,1	0.24285
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> /	log sin gd u	ω F <sub>0</sub> ′	log csc gđ u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.650	9.84308	76,0	0.08593	24,8	9.75715	err	0.24285
.651	.84383	75.9	.08618	24,9	75766	51,1 51,0	.24234
.652	84459	75,8	.08643	24,9	.75817	50,9	.24183
.653	84535	75,7	.08668	24,9	.75867	50,8	.24133
.654	.84611	75,6	.08693	24,9	.75918	50,7	.24082
		1				30,7	124002
0.655 .656	9.84686 84762	75,5	0.08718 .08742	25,0	9.75969	50,6	0.24031
657	.84837	75,4 75,4	.08768	25,0	.76019 .76070	50,4	.23981
.657 .658	84912		.08793	25,0	76120	50,3	.23930
.659	.84988	75,3 75,2	.08818	25,I 25,I	76170	50,2	.23880
		/ 5,2		23,1	.70170	50,1	.23030
0.660	9.85063	75,1	0.08843	25,1	9.76220	50,0	0.23780
.661	.85138	75,0	.08868	25,1	.76270	49,9	.23730
.662	.85213	74,9	.08893	25,2	.76320	49,7	.23680
.663	.85288	74,8	.08918	25,2	.76369	49,6	.23631
.664	.85362	74,7	.08943	25,2	.76419	49,5	.23581
0.665	9.85437	74,7	0.08969	25,3	9.76469	49,4	0.23531
.666	.85512	74,6	.08994	25,3	.76518	49,3	.23482
.667	.85586	74,5	.09019	25,3	.76567	49,2	.23433
.668	.85661	74,4	.09045	25,3	.76616	49,1	.23384
.669	.85735	74,3	.09070	25,4	.76665	48,9	•23335
0.670	9.85809	74,2	0.09095	25,4	9.76714	48,8	0.23286
.671	.85884	74,2	.09121	25,4	.76763	48,7	.23237
.672	.85958	74,1	.09146	25,5	.76812	48,6	.23188
.673	.86032	74,0	.09172	25,5	.7686o	• 48,5	.23140
674	.86106	73,9	.09197	25,5	76909	48,4	.23091
0.675	9.86180	73,8	0.09223	25,5	9.76957	48,3	0.23043
.676	.86253	73,7	.09248	25,6	.77005	48,2	.22995
.677	86327	73,7	.09274	25,6	.77053	48,1	.22947
.678	.86401	73,6	.09300	25,6	.77101	47,9	.22800
.679	.86474	73,5	.09325	25,7	•77149	47,8	.22851
0.680	9.86548	73,4	0.09351	25,7	לטולל ט	127 27	0.22803
.681	.86621	73,3	.09377	25,7	9.77197 •77245	47,7 47,6	
.682	.86694	73.3	.09402	25,7	.77292		.22755 22708
683	.86768	73,2	.09428	25,8	77340	47,5 47,4	22660
.684	86841	73,1	09454	25,8	.77387	47,3	.22613
0.685	9.86914	. 72.0	0.09480	و ښه	A PRINTS		0.00066
.686	86987	73,0 72,9	.09505	25,8 25,9	9.77434 .77481	47,2	0.22566
.687	.87060	72,9	.09503	25,9 25,9	.77528	47,1 47,0	.22519
.688	87133	72,8	.09557	25,9	·77575	46,9	.22472
.689	.87205	72,7	.09583	25,9	.77622	46,8	.22378
0.690	9.87278	ma6	0.00600	26,0	o mmbha		
.691	.87351	72,6	.09635	20,0 26,0	9.77669	46,7	0.22331
.692	.87423	72,5 72,5	.09035 .09661	26,0 26,0	.77715 .77762	46,6	.22285
.693	.87495	72,5 72,4	.09687	26,I	.77808	46,4	.22238
.694	.87568	72,3	.09713	26,1 26,1	.77855	46,3 46,2	.22192
l (						2.	
0.695 .696	9.87640	72,2	0.09739	26,1	9.77901	46,1	0.22099
.697	.87712	72,2	.09765	26,1 26,2	77947	46,0	.22053
.698	.87784 .87856	72,I	.09792	20,2 26,2	•77993	45,9	.22007
.699	.87928	72,0 71,9	.09844	26,2	.78039 .78084	45,8 45,7	.21961
0.700	9.88000	parties and the	0.09870	26,2	9.78130		
		71,9				45,6	0.21870
u	log tan gd u	ω F <sub>0</sub> ′	log sec gđ u	ω F <sub>0</sub> ′	log sin gd u	ω F₀′	log ese gd u

0.700 .701 .702 .703 .704  0.705 .706 .707 .708 .709  0.710 .711 .712 .713 .714  0.715 .716 .717 .718 .719  0.720 .721 .722 .723 .724  0.725 .726 .727 .728 .729  0.730 .731 .732 .733 .734	9.88000 .88074 .88144 .88216 .88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88909 9.89070 .89141 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,9 71,6 71,6 71,6 71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 70,9 70,8 70,8 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	0.09870 0.09893 0.09893 0.09993 0.09995 0.10002 1.0028 1.0055 1.0081 1.0108 0.10134 1.0161 1.0187 1.0214 1.0240 0.10267 1.0294 1.0320 1.0374 0.10401 1.0427 1.04427 1.04481 1.10508 0.10535	26,2 26,3 26,3 26,3 26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,7 26,7	9.78130 .78176 .78221 .78266 .78312  9.78357 .78402 .78447 .78492 .78536  9.78536  9.78581 .78626 .78670 .78714 .78759  9.78803 .78847 .78891 .78935 .78978  9.79022 .79066 .79109 .79153 .79196	45.6 45.5 45.4 45.3 45.2 45.1 45.0 44.9 44.8 44.7 44.6 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3 43.2	0.218 .217 .217 .217 .216 0.216 0.216 .215 .215 .214 0.214 .213 .212 .212 0.211 .211 .211 .210 0.209 .208 .208 .208
.701 .702 .703 .704 0.705 .706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88072 .88144 .88216 .88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,8 71,7 71,6 71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,3 70,2 70,0	.09895 .09923 .09949 .09975 0.10002 .10028 .10055 .10081 .10108 0.10134 .10161 .10187 .10214 .10240 0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,3 26,3 26,3 26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,9 26,9	. 78176 . 78221 . 78266 . 78312 9. 78357 . 78402 . 78447 . 78492 . 78536 9. 78581 . 78626 . 78670 . 78714 . 78759 9. 78803 . 78847 . 78891 . 78935 . 78978 9. 79022 . 79066 . 79109 . 79153 . 79196	45,5 45,4 45,3 45,2 45,1 45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.214 0.215 .215 .215 .215 .214 0.214 .213 .213 .212 .212 0.211 .211 .210 .210 0.209 .208 .208
.701 .702 .703 .704 0.705 .706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88072 .88144 .88216 .88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,8 71,7 71,6 71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,3 70,2 70,0	.09895 .09923 .09949 .09975 0.10002 .10028 .10055 .10081 .10108 0.10134 .10161 .10187 .10214 .10240 0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,3 26,3 26,3 26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,9 26,9	. 78176 . 78221 . 78266 . 78312 9. 78357 . 78402 . 78447 . 78492 . 78536 9. 78581 . 78626 . 78670 . 78714 . 78759 9. 78803 . 78847 . 78891 . 78935 . 78978 9. 79022 . 79066 . 79109 . 79153 . 79196	45,5 45,4 45,3 45,2 45,1 45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.214 0.215 .215 .215 .215 .214 0.214 .213 .213 .212 .212 0.211 .211 .210 .210 0.209 .208 .208
.702 .703 .704 0.705 .706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88144 .88216 .88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,7 71,6 71,6 71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 70,9 70,8 70,8 70,7 70,6 70,5 70,4 70,3 70,3 70,3 70,3 70,2 70,1	0.09923 0.09949 0.09975 0.10002 10028 10055 10081 10108 0.10134 10161 10187 10214 10240 0.10267 10294 10320 10347 10374 0.10401 10427 10454 10481 10508	26,3 26,3 26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78221 .78266 .78312 9.78357 .78402 .78447 .78492 .78536 9.78581 .78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	45,4 45,3 45,2 45,1 45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.216 0.216 0.216 .215 .215 .214 0.214 .213 .213 .212 .212 0.211 .210 .210 .200 .208 .208
.703 .704 0.705 .706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88216 .88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89403 .89563 .89634 .89704	71,6 71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 70,9 70,8 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,3 70,2 70,1	.09949 .09975 0.10002 .10028 .10055 .10081 .10108 0.10134 .10161 .10187 .10214 .10240 0.10267 .10294 .10320 .10374 0.10401 .10427 .10454 .10481 .10508	26,3 26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,9 26,9	.78266 .78312 9.78357 .78402 .78447 .78492 .78536 9.78581 .78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	45,3 45,2 45,1 45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.216 0.216 0.215 .215 .214 0.214 .213 .213 .212 .212 0.211 .210 .210 0.209 .208 .208
.704  0.705 .706 .707 .708 .709  0.710 .711 .712 .713 .714  0.715 .716 .717 .718 .719  0.720 .721 .722 .723 .724  0.725 .726 .727 .728 .729  0.730 .731 .732 .733 .734	.88287 9.88359 .88430 .88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,6 71,5 71,4 71,3 71,3 71,2 71,1 71,0 71,0 70,9 70,8 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,3 70,2 70,1	.09975  0.10002 .10028 .10055 .10081 .10108  0.10134 .10161 .10187 .10214 .10240  0.10267 .10294 .10320 .10374  0.10401 .10427 .10454 .10481 .10508	26,4 26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78312 9.78357 .78402 .78447 .78492 .78536 9.78581 .78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	45,2 45,1 45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3	0.216 0.216 0.217 0.214 0.214 0.214 0.214 0.217 0.217 0.217 0.210 0.200 0.208 0.208 0.208
.706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.884,30 .885,02 .885,73 .88644 .9.887,15 .887,86 .889,28 .889,99 .890,70 .89141 .892,11 .892,82 .893,52 .894,93 .895,63 .895,63 .896,34 .897,04	71,4 71,3 71,3 71,2 71,1 71,0 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,5 70,3 70,3 70,3 70,3 70,3 70,0	. 10028 . 10055 . 10081 . 10108 0. 10134 . 10161 . 10187 . 10214 . 10240 0. 10267 . 10294 . 10320 . 10347 . 10374 0. 10401 . 10427 . 10454 . 10481 . 10508	26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78402 .78447 .78492 .78536 .78536 .78626 .78670 .78714 .78759 .78847 .78891 .78935 .78978 .79066 .79109 .79153 .79196	45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.214 0.214 0.214 .213 .213 .212 .212 0.211 .210 .210 .200 .208 .208 .208
.706 .707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.884,30 .885,02 .885,73 .88644 .9.887,15 .887,86 .889,28 .889,99 .890,70 .89141 .892,11 .892,82 .893,52 .894,93 .895,63 .895,63 .896,34 .897,04	71,4 71,3 71,3 71,2 71,1 71,0 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,5 70,3 70,3 70,3 70,3 70,3 70,0	. 10028 . 10055 . 10081 . 10108 0. 10134 . 10161 . 10187 . 10214 . 10240 0. 10267 . 10294 . 10320 . 10347 . 10374 0. 10401 . 10427 . 10454 . 10481 . 10508	26,4 26,4 26,5 26,5 26,5 26,6 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78402 .78447 .78492 .78536 .78536 .78626 .78670 .78714 .78759 .78847 .78891 .78935 .78978 .79066 .79109 .79153 .79196	45,0 44,9 44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.214 0.214 0.214 .213 .213 .212 .212 0.211 .210 .210 0.209 .208 .208 .208
.707 .708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88502 .88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89423 .89563 .89634 .89704	71,3 71,3 71,2 71,1 71,0 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	. 10055 .10081 .10108 0.10134 .10161 .10187 .10214 .10240 0.10267 .10294 .10320 .10374 0.10401 .10427 .10454 .10481 .10508	26,4 26,5 26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78447 .78492 .78536 9.78581 .78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44.9 44.8 44.7 44.6 44.5 44.4 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3	0.214 0.214 0.214 .213 .213 .212 .214 .216 .216 .216 .216 .216 .216 .216 .216 .217 .218 .218 .219 .209 .208 .208 .208 .208
.708 .709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88573 .88644 9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,3 71,2 71,1 71,0 71,0 70,9 70,8 70,7 70,6 70,5 70,4 70,3 70,3 70,3 70,2 70,1	.10081 .10108 0.10134 .10161 .10187 .10214 .10240 0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,5 26,5 26,5 26,6 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78492 .78536 .78536 .78626 .78670 .78714 .78759 .78893 .78847 .78891 .78935 .78978 .79066 .79109 .79153 .79196	44,8 44,7 44,6 44,5 44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3	0.214 0.214 0.213 .213 .212 .212 0.211 .211 .210 .210 0.209 .208 .208
.709 0.710 .711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	9.88715 .88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .8953 .89634 .89704 .89774 .89844 .89914	71,2 71,1 71,0 71,0 70,9 70,8 70,7 70,6 70,5 70,5 70,3 70,3 70,3 70,3 70,2 70,1	. 10108  0. 10134 . 10161 . 10187 . 10214 . 10240  0. 10267 . 10294 . 10320 . 10347 . 10374  0. 10401 . 10427 . 10454 . 10481 . 10508  0. 10535	26,5 26,5 26,6 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78536 9.78581 .78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153	44.7 44.6 44.5 44.4 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3	0.214 0.214 .213 .212 .212 0.211 .211 .210 .210 0.209 .208 .208 .208
.711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,0 71,0 70,9 70,8 70,8 70,7 70,6 70,5 70,4 70,3 70,3 70,3 70,1	. 10161 . 10187 . 10214 . 10240 0. 10267 . 10294 . 10320 . 10374 0. 10401 . 10427 . 10454 . 10481 . 10508	26,5 26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,9	.78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44.5 44.4 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3 43.2	0.213 .213 .212 .212 0.211 .211 .210 .210 .209 .209 .208 .208
.711 .712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88786 .88857 .88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	71,0 71,0 70,9 70,8 70,8 70,7 70,6 70,5 70,4 70,3 70,3 70,3 70,1	. 10161 . 10187 . 10214 . 10240 0. 10267 . 10294 . 10320 . 10374 0. 10401 . 10427 . 10454 . 10481 . 10508	26,5 26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78626 .78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44.5 44.4 44.3 44.2 44.1 44.0 43.9 43.8 43.7 43.6 43.5 43.4 43.3 43.2	0.213 .213 .212 .212 0.211 .211 .210 .210 .209 .209 .208 .208
.712 .713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88857 .88928 .88909 9.89070 .89141 .89211 .89282 .89352 9.89423 .89563 .89634 .89704 9.89774 .89844 .89914	71,0 70,9 70,8 70,7 70,6 70,5 70,4 70,3 70,3 70,2 70,1	. 10187 .10214 .10240 0. 10267 .10294 .10320 .10347 .10374 0. 10401 .10427 .10454 .10481 .10508	26,6 26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,9 26,9	.78670 .78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44,4 44,3 44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3	.213 .212 .212 0.211 .211 .210 .210 .210 .209 .209 .208 .208
.713 .714 0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.88928 .88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	70,9 70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	.10214 .10240 0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,6 26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78714 .78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44,3 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.211 0.211 0.211 0.210 0.200 0.200 0.200 0.208
.714  0.715 .716 .717 .718 .719  0.720 .721 .722 .723 .724  0.725 .726 .727 .728 .729  0.730 .731 .732 .733 .734	.88999 9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89563 .89634 .89704 9.89774 .89844 .89914	70,8 70,7 70,6 70,5 70,5 70,5 70,3 70,3 70,2 70,1	.10240 0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,6 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9	.78759 9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44,2 44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.211 .211 .211 .210 .210 .210 0.200 .200
0.715 .716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	9.89070 .89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	70,8 70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	0.10267 .10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,7 26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9 26,9	9.78803 .78847 .78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	44,1 44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.211 .211 .210 .210 .210 0.200 .200 .20
.716 .717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89141 .89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704	70,7 70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	. 10294 .10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,7 26,7 26,7 26,8 26,8 26,8 26,8 26,9 26,9	9.79022 .79066 .79153 .79078	44,0 43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.209 .200 .200 .200 .208 .208
.717 .718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89211 .89282 .89352 9.89423 .89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,6 70,5 70,5 70,4 70,3 70,3 70,2 70,1	.10320 .10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,7 26,7 26,8 26,8 26,8 26,8 26,9	78891 .78935 .78978 9.79022 .79066 .79109 .79153 .79196	43,9 43,8 43,7 43,6 43,5 43,4 43,3 43,2	0.209 .209 .208 .208
.718 .719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89282 .89352 9.89423 .89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,5 70,5 70,4 70,3 70,3 70,2 70,1	.10347 .10374 0.10401 .10427 .10454 .10481 .10508	26,7 26,8 26,8 26,8 26,8 26,9 26,9	.78935 .78978 9.79022 .79066 .79109 .79153 .79196	43,8 43,7 43,6 43,5 43,4 43,3 43,2	.210 .210 0.209 .209 .208 .208
.719 0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89352 9.89423 .89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,5 70,4 70,3 70,3 70,2 70,1	.10374 0.10401 .10427 .10454 .10481 .10508	26,8 26,8 26,8 26,8 26,9 26,9	9.79022 .79066 .79109 .79153 .79196	43,7 43,6 43,5 43,4 43,3 43,2	.210 0.209 .209 .208 .208
0.720 .721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	9.89423 .89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,4 70,3 70,3 70,2 70,1	0.10401 .10427 .10454 .10481 .10508	26,8 26,8 26,8 26,9 26,9	9.79022 .79066 .79109 .79153 .79196	43,6 43,5 43,4 43,3 43,2	0.209 .209 .208 .208
.721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,3 70,3 70,2 70,1 70,0	.10427 .10454 .10481 .10508	26,8 26,8 26,9 26,9	.79066 .79109 .79153 .79196	43,5 43,4 43,3 43,2	.208 .208 .208
.721 .722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89493 .89563 .89634 .89704 9.89774 .89844 .89914	70,3 70,3 70,2 70,1 70,0	.10427 .10454 .10481 .10508	26,8 26,9 26,9	.79066 .79109 .79153 .79196	43,5 43,4 43,3 43,2	.208 .208 .208
.722 .723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89563 .89634 .89704 9.89774 .89844 .89914	70,3 70,2 70,1 70,0	.10454 .10481 .10508	26,8 26,9 26,9	.79109 .79153 .79196	43,4 43,3 43,2	.208 .208
.723 .724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89634 .89704 9.89774 .89844 .89914	70,2 70,1 70,0 70,0	.10481 .10508	26,9 26,9	.79153 .79196	43,3 43,2	.208
.724 0.725 .726 .727 .728 .729 0.730 .731 .732 .733 .734	.89704 9.89774 .89844 .89914	70,1 70,0 70,0	0.10535	26,9	.79196	43,2	.208
.726 .727 .728 .729 0.730 0.731 .732 .733 .734	.89844 .89914	70.0		26.0	0.70010		
.726 .727 .728 .729 0.730 0.731 .732 .733 .734	.89844 .89914	70.0					. 0.202
.727 .728 .729 0.730 .731 .732 .733 .734	.89914	70,0		27,0	.79282	43,1 43,0	.207
.728 .729 0.730 .731 .732 .733 .734		600	10589		1		
.729 0.730 .731 .732 .733 .734		69,9	.10509	27,0	.79325	42,9	.206
0.730 .731 .732 .733 .734	.90054	69,8 69,8	10643	27,0 27,0	.79368 .79411	42,8 42,7	.206
.731 .732 .733 .734				1000			
.732 .733 .734	9.90123	69,7	0.10670	27,1	9.79453	42,6	0.20
·733 ·734	.90193	69,6	.10697	27,1	.79496	42,5	.205
•734	.90263	69,6	.10724	27,1	.79538	42,5	.204
	.90332	69,5	.10751	27,1	.79581	42,4	.204
	.90402	69,4	.10778	27,2	.79623	42,3	.203
	9.90471	69,4	0.10805	27,2	9.79665	42,2	0.203
.736	.90540	69,3	.10833	27,2	.79708	42,1	.202
737	.90610	69,2	.10860	27,2	.79750	42,0	.202
.738	.90679	69,2	.10887	27,3	.79791	41,9	.202
.739	.90748	69,1	.10915	27,3	79833	41,8	.201
0.740	9.90817	69,0	0.10942	27,3	9.79875	41,7	0.201
741	.90886	69,0	.10969	27,3	.79917	41,6	.200
.742	.90955	68,9	10997	27,4	.79958	41,5	.200
.743	.91024	68,8	.11024	27,4	.80000	41,4	.200
.744	91092	68,8	.11051	27,4	.80041	41,3	.199
0.745	9.91161	68,7	0.11079	27,5	9.80082	41,2	0.199
.746	.91230	68,6	.11106	27,5	.80124	41,2	.198
1 2	91230	68,6	.11134		.80124		
·747		68,5	.11134	27,5		41,1	198
.748 .749	.91367 .91436	68,4	11189	27,5 27,6	.80206 .80247	41,0	.197
0.750			0.11216	ţ		40,8	0.197
	9.91504	68,4		27,6	9.80288		

I	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
l	0.750	9.91504	68,4	0.11216	27,6	9.80288	40,8	0.19712
П	751	.91572	68,3	.11244	27,6	.80328	40,7	19672
H	.752	.91641	68,2	.11272	27,6	.80369	40,6	.19631
Н	•753	91709	68,2	.11299	27,7	.80410	40,5	.19590
ı	.754	.91777	68,1	.11327	27,7	.80450	40,4	. 19550
ı	0.755	9.91845	68,1	0.11355	27,7	9.80490	40,3	0.19510
I	.756	.91913	68,0	.11382	27,7	.80531	40,3	.19469
	•757	.91981	67,9	.11410	27,8	.80571	40,2	.19429
I	.758	.92049	67,9	.11438	27,8	.80611	40,1	. 19389
-	•759	.92117	67,8	.11466	27,8	.80651	40,0	. 19349
	0.760	9.92185	67,7	0.11493	27,8	9.80691	39,9 39,8	<b>0.</b> 19309
Ш	.761	.92252	67,7	.11521	27,9	80731	39,8	.19269
۱	.762 .763	.92320	67,6 67,6	.11549 .11577	27,9	.80771 .80810	39.7	.19229
	764	.92387 .92455	67,5	.11505	27,9	.80850	39,6 39,6	.19190 .19150
		74		-	27,9			
ı	0.765	9.92522	67,4	0.11633	28,0	9.80889	39,5	0.19111
ı	.766	.92590	67,4	.11661	28,0	.80929	39,4	.19071
I	.767 .768	.92657	67,3 67,3	11689	28,0	80968	39,3	.19032
ı	.769	.92724 .92792	67,3	.11717	28,0 28,1	.81007 .81047	39,2	.18993
I			at in ing				39,1	
ı	0.770	9.92859	67,1	0.11773	28,1	9.81086	39,0	0.18914
ı	.771	.92926	67,1	.11801 .11829	28,1	.81125	39,0 38,9	.18875
ı	772 773	.92993 .93060	67,0 67,0	.11829	28,1 28,2	.81164 .81202	38,9 38,8	. 18836 . 18798
ı	.774	.93000	66,9	.11886	28,2 28,2	.81202	38,7	. 18759
	0.775	9.93194	66,8 66,8	0.11914	28,2	9.81280	38,6	0.18720
I	.776	.93261	66,7	.11942 .11970	28,2 28,3	.81318	38,5 38,4	. 18682 . 18643
ı	•777 •778	•93327 •93394	66,7	.11999	28,3 28,3	.81357 .81395	38,4 38,4	. 18605
I	.779	.93461	66,6	.12027	28,3	.81434	38,3	.18566
l	0.780	9.93527	66,5	0.12055	28,3	9.81472	38,2	0.18528
I	.781	.93594	66.5	. 12084	28,4	.81510	38,1	.18490
I	.782	.93660	66,4	.12112	28,4	.81548	38,0	.18452
	.783	.93727	66.4	.12141	28,4	.81586	37,9	.18414
ı	.784	•93793	66,3	.12169	28,4	.81624	37,9	. 18376
ı	0.785	9.93859	66,2	0.12197	28,5	9.81662	37,8	0.18338
I	.786	.93925	66,2	.12226	28,5	.81699	37,7	.18301
ı	.787	.93992	66,1	.12254	28,5	.81737	37,6	. 18263
ı	.788	.94058	66,1	.12283	28,5	.81775	37,5	.18225
ı	.789	.94124	66,0	.12312	28,6	.81812	37,4	.18188
	0.790	9.94190	66,0	0.12340	28,6	9.81850	37,4	0.18150
	.791	.94256	65,9	.12369	28,6	.81887	37,3	.18113
I	.792	.94321	65,8	.12397	28,6	.81924	37,2	. 18076
I	793	.94387	65,8	.12426	28,7	.81961	37,1	.18039
۱	• <i>7</i> 94	•94453	65,7	.12455	28,7	.81998	37,0	.18002
	0.795	9.94519	65,7	0.12483	28,7	9.82035	37,0	0.17965
	796	.94584	65,6	.12512	28,7	82072	36,9	.17928
H	.797 .798	.94650 .94716	65,6 65,5	.12541	28,8 28,8	.82109 .82146	36,8 36,7	.17891 .17854
	.799	.94781	65,5	.12598	28,8 28,8	.82140	36,6	.17817
	0.800	9.94846	65,4	0.12627	28,8	9.82219	36,6	0.17781
	u	log tan gd u	ω Fo'	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
		AN TARLES					l	

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
0.800	9.94846	65,4	0.12627	28,8	9.82219	36,6	0.1778
.801	.94912	65,3	. 12656	28,9	.82256	36,5	. 1774
.802	94977	65,3	.12685	28,9	.82292	36,4	. 1770
803	.95042	65,2	.12714	28,9 28,9	.82329	36,3	. 1767
.804	.95108	65,2	.12743	-	.82365	36,2	.1763
0.805 .805	9.95173	65,1 65,1	0.12772 .12801	29,0 29,0	9.82401 .82437	36,2 36,1	<b>0.</b> 1759
.807	95303	65,0	.12830	29,0	.82473	36,0	1752
.808	.95368	65,0	.12859	29,0	.82509	35,9	.1749
.809	•95433	64,9	.12888	29,1	.82545	35,9	.1745
0.810	9.95498	64,9 64,8	0.12917 .12946	29, I 29, I	9.82581 82617	35,8 35,7	0.1741
.812	.95627	64,8	.12975	29,1	.82652	35,6	.1734
.813	.95692	64,7	.13004	29,2	.82688	35,5	.1731
.814	•95757	64,6	.13033	29,2	.82723	35,5	.1727
0.815 .816	9.95821 .95886	64,6 64,5	0.13063 .13092	29,2 29,2	9.82759 .82794	35,4 35,3	0.1724 .1720
.817	.95950	64,5	.13121	29,2	.82829	35,2	.1717
.818	.96015	64,4	.13150	29,3	.82865	35,2	.1713
.819	.95079	64,4	.13180	29,3	.82900	35,1	.1710
0.820	9.96144 .96208	64,3	0.13209 .13238	29,3	9.82935 .82970	35,0	0.1706 .1703
.821	.96272	64,3 64,2	.13238	29,3 29,4	.83005	34,9 34,9	.1699
.823	.96336	64,2	.13297	29,4	.83040	34,8	. 1696
.824	.96401	64,1	.13326	29,4	.83074	34,7	. 1692
0.825 .826	9.96465	64,1	0.13356	29,4	9.83109	34,6	0.1689 .1689
.820	.96529 .96593	64,0 64,0	.13385	29,5 29,5	.83144 .83178	34,6 34,5	.1682
.828	.96657	63,9	.13444	29,5	.83213	34,3	.1678
.829	.96721	63,9	.13474	29,5	83247	34,3	.1675
0.830	9.96784	63,8	0.13503	29,6	9.83281 .83316	34,3	0.1671 .1668
.831 .832	.96848 .96912	63,8 63,7	.13533 .13562	29,6 29,6	.83350	34,2 34,1	.1665
.833	.96976	63,7	.13592	29,6	.83384	34,0	.1661
.834	.97039	63,6	.13622	29,6	.83418	34,0	.1658
0.835	9.97103	63,6	0.13651	29,7	9.83452	33,9	0.1654
.836	.97167	63,5 63,5	.13681	29,7 29,7	.83486 .83519	33,8 33,8	.1651
.837 .838	.97230 .97293	63,4	.13740	29,7 29,7	.83553	33,7	.1644
.839	•97357	63,4	.13770	29,8	.83587	33,6	.1641
0.840	9.97420	63,3	0.13800	29,8	9.83620	33,5	0.1638
.841	.97484	63,3	.13830 .13860	29,8 29,8	.83654 .83687	33,5	. 1632
.842 .843	.97547 .97610	63,2 63,2	.13889	29,8 29,9	.83721	33,4 33,3	.1631
.844	.97673	63,1	13919	29,9	.83754	33,3	.1624
0.845	9.97736	63,1	0.13949	29,9	9.83787	33,2	0.1621
.846 .847	.97799 .97862	63,0 63,0	.13979	29,9 29,9	.83820 .83853	33,1 33,0	.1618
.848	.97925	62,9	.14039	30,0	.83886	33,0	.1611
.849	.97988	62,9	.14069	30,0	.83919	32,9	.1608
0.850	9.98051	62,8	0.14099	30,0	9.83952	32,8	0.1604
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> '	log csc gd
	AN TABLES	C 128 7 1 2 4 1	31	and an area of the same	SHE SEE HER SHE SHE SHE	and a secondary	

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	u ,	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
	0.850	9.98051	62,8	0.14099	30,0	9.83952	32,8	0.16048
ı	.851	.98114	62,8	.14129	30,0	.83985	32,8	.16015
I	.852	.98177	62,7	.14159	30,1	.84018	32,7	.15982
	.853	.98239	62,7	.14189	30,1	.84050	32,6	.15950
	.854	.98302	62,7	.14219	30,1	.84083	32,6	.15917
l	0.855	9.98365	62,6	0.14249	30,1	9.84115	32,5	0.15885
	.856	.98427	62,6	.14279	30,1	.84148	32,4	.15852
	.857	98490	62,5	.14310	30,2	.84180	32,3	.15820
	.858	.98552	62,5	. 14340	30,2	.84213	32,3	.15787
	.859	.98615	62,4	.14370	30,2	.84245	32,2	• 15755
	0.860	9.98677	62,4	0,14400	30,2	9.84277	32,1	0.15723
ı	.861	.98739	62,3	14430	30,3	.84309	32,1	. 15691
H	.862	.98802	62,3	. 14461	30,3	.84341	32,0	15659
	.863	.98864	62,2	. 14491	30,3	.84373	31,9	.15627
	.864	.98926	62,2	. 14521	30,3	.84405	31,9	15595
۱	0.865	9.98988	62,1	0.14552	30,3	9.84437	31,8	0.15563
ı	.866	9.90900	62,1	.14582	30,4	.84469	31,7	. 15531
I	.867	.99113	62,1	.14612	30,4	.84500	31,7	.15500
ı	.868	99175	62,0	.14643	30,4	.84532	31,6	.15468
I	.869	99237	62,0	.14673	30,4	.84563	31,5	.15437
I	0.870	9.99299	61,9	0.14704	30,5	9.84595	31,5	0.15405
	871	.99361	61,9	14734	30,5	84626	31,4	15374
ı	.872	.99301	61,8	14765	30,5	.84658	31,3	.15342
I	.873	.99484	61,8	14795	30,5	.84689	31,3	.15311
	.874	.99546	61,7	.14826	30,5	.84720	31,2	.15280
				2 - 10-6	20.6	0 0 4 77 7	27.7	0 15240
	0.875	9.99608	61,7	0.14856 .14887	<b>30,</b> 6	9.84751	31,1 31,1	0.15249 .15217
ı	.876	.99669	61,7 61,6		30,6	.84783	31,0	.15186
	.877	•99731	61,6	.14917	30,6	.84845	30,9	.15155
•	.878 .879	.99793	61,5	14979	30,7	.84875	30,9	.15125
ı		.99054	,	AND SHIPPERSONS OF	30,7	1		
I	0.880	9.99916	61,5	0.15009	30,7	9.84906	30,8	0.15094
1	.881	99977	61,4	15040	30,7	.84937	30,7	.15063
ı	.882	0.00038	61,4	.15071	30,7	.84968	30,7	.15032
ı	.883	.00100	61,3	.15101	30,7	.84998	30,6	.15002
ı	.884	.00161	61,3	.15132	30,8	.85029	30,5	.14971
١	0.885	0.00222	61,3	0.15163	30,8	9.85059	30,5	0.14941
1	.886	.00284	61,2	.15194	30,8	.85090	30,4	.14910
1	.887	.00345	61,2	.15225	30,8	.85120	30,3	.14880
3	.888	.00406	61,1	.15255	30,9	.85151	30,3	.14849
1	.889	00467	61,1	.15286	30,9	.85181	30,2	.14819
	0.890	0.00528	61,0	0.15317	30,9	9.85211	30,2	0.14789
	.891	.00589	61,0	.15348	30,9	.85241	30,1	.14759
ı	.892	.00650	61,0	.15379	30,9	.85271	30,0	.14729
	.893	.00711	60,9	.15410	31,0	.85301	30,0	. 14699
	.894	.00772	60,9	.15441	31,0	.85331	29,9	.14669
1	0.895	0.00833	60,8	0.15472	31,0	9.85361	29,8	0.14639
ı	.896	.00894	60,8	.15503	31,0	85391	29,8	. 14609
١	.897	.00955	60,8	.15534	31,0	.85421	29,7	.14579
	.898	.01015	60,7	.15565	31,1	.85450	29,6	.14550
	.899	.01076	60,7	.15596	31,1	.85480	29,6	.14520
١	0.900	0.01137	60,6	0.15627	31,1	9.85509	29,5	0.14491
١	U	log tan gd u	ω Fo'	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
ं			\			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	and the second s	

u         log sinh u         w Fe/         log cosh u         w Fe/         log tanh u         w Fe/         log cosh u           0.000         0.01137         60,6         0.15658         31,1         9.85509         20,5         0.14491           .001         .01128         60,5         1.15689         31,2         8.85508         20,3         1.14431           .003         .01379         60,5         1.15752         31,2         8.8568         20,4         1.14323           .090         .01379         60,4         0.15783         31,2         8.8568         20,3         1.14373           .090         .01500         60,4         1.15814         31,2         8.8565         20,2         0.14340           .097         .01500         60,3         .15840         31,3         8.85715         29,1         1.4285           .098         .01620         60,3         .15908         31,3         8.85712         29,0         1.14285           .091         .01741         60,2         .15909         31,3         8.8580         28,8         1.4170           .091         .01741         60,2         .15971         31,3         8.8580         28,8         1.	<u> </u>			hms of Hy				·
Opt   O.1197   Go, G.   I.5658   31,1   .85539   29,5   I.4461	u	log sinh u	ૂώ, F₀′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω Fo'	log coth u
Opt   O.1197   Go, G.   I.5658   31,1   .85539   29,5   I.4461	0.000	0.01127	60.6	0.15627	21.1	0.85500	20.5	0. 14401
0,902			60,6			85530		
993			60,5			85568		
0.904         .01379         60,5         .15752         31,2         .85627         29,3         .14373           0.905         .0.01430         60,4         .15843         31,2         .85685         29,2         .14344           .906         .01520         60,3         .15846         31,3         .85715         29,1         .14285           .908         .01620         60,3         .15847         31,3         .85744         29,0         .14226           .909         .01681         60,3         .15908         31,3         .85732         29,0         .14226           .910         .0.1741         60,2         .159071         31,3         .85830         28,8         .14170           .911         .01801         60,2         .15971         31,3         .85830         28,8         .14170           .912         .01801         60,1         .16023         31,4         .85888         28,7         .14182           .914         .01981         60,1         .16063         31,4         .85974         28,5         .14083           .915         .0.02041         60,0         .16265         31,4         .85945         28,6         0.14055      <			60,5			95500		
0.905			60.5			.85627		
O.050	1904	1010/9	•	-, -				
.007         .01560         60.3         .15846         31.3         .85715         29.1         .14285           .008         .01681         60.3         .15897         31.3         .85744         29.0         .14227           0.910         0.01741         60.2         0.15939         31.3         .85773         29.0         .14227           0.911         .01801         60.2         .15971         31.3         .85830         28.8         .14170           .912         .01861         60.1         .16002         31.4         .85859         28.8         .14170           .913         .01921         60.1         .16065         31.4         .85889         28.7         .14083           .914         .01981         60.1         .16065         31.4         .85917         28.7         .14083           .915         .0.02041         60.0         .16065         31.4         .85917         28.7         .14083           .917         .02161         59.0         .16159         31.5         .86002         28.5         .14025           .917         .02161         59.0         .16193         31.5         .86031         28.4         .13969						9.85056		
.908         .01620         60,3         .15908         31,3         .85744         29,0         .14226           .909         .01681         60,3         .15908         31,3         .85773         29,0         .14226           .911         .01801         60,2         .159371         31,3         9.85801         28,0         0.14199           .912         .01801         60,1         .16002         31,4         .85859         28,8         .14112           .913         .01921         60,1         .16065         31,4         .85859         28,7         .14083           0.915         0.02041         60,0         0.16065         31,4         .85917         28,7         .14083           0.915         0.02041         60,0         .161696         31,4         .85974         28,5         .14083           0.916         .02101         60,0         .161695         31,5         .86031         28,6         0.14055           .916         .02101         60,0         .16285         31,5         .86031         28,6         0.14055           .917         .02161         59,9         .16222         31,5         .86031         28,4         .13969			60,4					
.909         .01681         .06,3         .15908         31.3         .85773         29,0         .14227           0.910         0.01741         60,2         0.15939         31.3         9.85801         28,9         0.14109           .911         .01801         60,2         .15971         31.3         8.8830         28,8         1.4170           .913         .01921         60,1         .16003         31.4         .85839         28,7         .14112           .913         .01921         60,1         .16033         31.4         .85974         28,7         .14112           .915         .0.2041         60,0         .16066         31.4         9.85945         28,6         0.14055           .916         .02101         60,0         .16128         31.4         .88974         28,5         .14026           .917         .02161         59,9         .16159         31.5         .86002         28,5         .13989           .919         .02281         59,9         .16222         31.5         .86031         28,4         .13941           .0220         .02341         59,8         .16285         31.5         .86164         28,2         .13849			00,3			•05/15		
0.910         0.1741         60,2         0.15939         31,3         9.85801         28,0         0.1419           .911         .01801         60,2         .15971         31,3         .88830         28,8         .14170           .912         .01801         60,1         .16002         31,4         .85859         28,8         .14141           .913         .01921         60,1         .16065         31,4         .85879         28,7         .14083           .914         .01981         60,1         .16065         31,4         .85917         28,7         .14083           .915         .0.22011         60,0         .16128         31,4         .85974         28,5         .14026           .916         .02101         60,0         .16128         31,4         .85974         28,5         .14026           .918         .02221         59,9         .16191         31,5         .86011         28,2         .13998           .918         .02221         59,9         .16285         31,5         .86186         28,3         0.13012           .921         .02401         59,8         .16285         31,5         .86088         28,3         0.13012 <tr< td=""><td>.908</td><td></td><td>60,3</td><td></td><td></td><td>85744</td><td></td><td></td></tr<>	.908		60,3			85744		
0.912	.909	.01681	60,3	.15908	31,3	.85773	29,0	.14227
0.912	0.010	0.01741	60,2	0.15939	31,3	9.85801	28,9	0.14199
0.912			60,2				28,8	
0.913			60.7			85850		
0.914         0.01981         60,1         .16065         31,4         .85917         28,7         .14083           0.915         0.02041         60,0         0.16096         31,4         .85904         28,5         .14026           .917         0.2161         59,9         .16150         31,5         .86031         28,5         .14026           .918         0.2221         59,9         .16191         31,5         .86031         28,4         .13969           .919         .02281         59,9         .16222         31,5         .86031         28,4         .13941           0.920         0.02341         59,8         0.16254         31,5         .86088         28,3         0.13912           .921         .02401         59,8         .16285         31,5         .86116         28,2         .13846           .922         .02461         59,8         .16347         31,6         .86172         28,1         .13828           .922         .02401         59,6         .16443         31,6         .86172         28,1         .13826           .925         .02600         .02600         59,6         .16475         31,7         .86284         27,9         .13			60.7					
0.915         0.02041         60,0         0.16096         31,4         9.85945         28,6         0.14055           .916         .02101         60,0         .16128         31,4         .85974         28,5         .14026           .917         .02161         59,9         .16159         31,5         .86002         28,5         .13998           .918         .02221         59,9         .16222         31,5         .86059         28,4         .13941           0.920         .02241         59,8         .16285         31,5         .86116         28,2         .13884           .921         .02401         59,8         .16385         31,5         .86116         28,2         .13884           .922         .02401         59,8         .16348         31,6         .86172         28,1         .13828           .922         .02401         59,8         .16348         31,6         .86172         28,1         .13828           .922         .02400         59,6         .16411         31,6         .86200         28,1         .13820           .922         .02699         59,6         .16411         31,6         .86228         28,0         0.13724 <tr< td=""><td></td><td></td><td>60,1</td><td></td><td></td><td></td><td>28,7</td><td></td></tr<>			60,1				28,7	
.916         .02101         60,0         .16128         31,4         .85974         28,5         .14026           .917         .02161         59,9         .16159         31,5         .86002         28,5         .13988           .918         .02221         59,9         .16191         31,5         .86059         28,4         .13969           .919         .02281         59,9         .16222         31,5         .86059         28,4         .13941           0.920         .0.2341         59,8         .16285         31,5         .86116         28,2         .13844           .921         .02401         59,8         .16317         31,6         .86144         28,2         .13884           .922         .02401         59,8         .16317         31,6         .86144         28,2         .13884           .923         .0250         59,7         .16388         31,6         .86172         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13746           .925         .0.02640         59,6         .16411         31,6         .86228         28,0         0.13772								•
.917         .02161         59,9         .16150         31,5         .86002         28,5         .13908           .918         .02221         59,9         .16191         31,5         .86031         28,4         .13969           .920         .02241         59,8         .16285         31,5         .86059         28,4         .13941           .921         .02401         59,8         .16285         31,5         .86116         28,2         .13884           .922         .02461         59,8         .16317         31,6         .86144         28,2         .13884           .923         .02520         59,7         .16348         31,6         .86124         28,2         .13886           .923         .02520         59,6         .16441         31,6         .86200         28,1         .13880           .924         .02699         59,6         .16443         31,6         .86226         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86842         27,9         .13766           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13660						9.85945	28,0	
.918	.916				31,4	.85974	28,5	
.919         .02281         59,9         .16222         31,5         .86059         28,4         .13941           0.920         0.02341         59,8         0.16254         31,5         9.86088         28,3         0.13912           .921         .02401         59,8         .16317         31,6         .86116         28,2         .13854           .922         .02461         59,8         .16317         31,6         .86172         28,1         .13828           .924         .02580         59,7         .16388         31,6         .86200         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13828           .924         .02580         59,6         .16441         31,6         .86256         27,9         .13746           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13746           .927         .02759         59,6         .16475         31,7         .86312         27,8         .13680           .929         .02878         59,5         .16506         31,7         .86312         27,8         .13660	.917	.02161	59,9		31,5		28,5	
.919         .02281         59,9         .16222         31,5         .86059         28,4         .13941           0.920         0.02341         59,8         0.16254         31,5         9.86088         28,3         0.13912           .921         .02401         59,8         .16285         31,5         .86116         28,2         .13854           .922         .02461         59,8         .16317         31,6         .86174         28,2         .13856           .923         .02520         59,7         .16348         31,6         .86172         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13826           .925         .02640         59,6         .16441         31,6         .86256         27,9         .13744           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13746           .927         .02759         59,6         .16473         31,7         .86342         27,9         .13746           .928         .02810         59,5         .16506         31,7         .86340         27,8         .13680	.918	.02221	59,9	.16191	31,5	.86031	28,4	. 13969
.921         .02401         59,8         .16285         31,5         .86116         28,2         .13856           .923         .02520         59,7         .16348         31,6         .86144         28,2         .13856           .923         .02580         59,7         .16348         31,6         .86200         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13828           .925         .0.02640         59,6         0.16411         31,6         9.86228         28,0         0.13772           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86384         27,9         .13746           .929         .02878         59,5         .16506         31,7         .86340         27,8         .13688           .929         .02878         59,5         .16506         31,7         .86340         27,7         0.13632           .931         .02907         59,4         .16602         31,7         .86395         27,7         .13605		.02281	59,9	.16222	31,5	.86059	28,4	.13941
.921         .02401         59,8         .16285         31,5         .86116         28,2         .13856           .923         .02520         59,7         .16348         31,6         .86144         28,2         .13856           .923         .02580         59,7         .16348         31,6         .86200         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13828           .925         .0.02640         59,6         0.16411         31,6         9.86228         28,0         0.13772           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86384         27,9         .13746           .929         .02878         59,5         .16506         31,7         .86340         27,8         .13688           .929         .02878         59,5         .16506         31,7         .86340         27,7         0.13632           .931         .02907         59,4         .16602         31,7         .86395         27,7         .13605	0.020	0.02341	50.8	0. 16254	· 31.5	0.86088	28.3	0.13012
.022         .02461         59,8         .16317         31,6         .86144         28,2         .13836           .023         .02520         59,7         .16348         31,6         .86172         28,1         .13828           .024         .02580         59,7         .16380         31,6         .86200         28,1         .13808           0.925         .0.2640         59,6         .16411         31,6         9.86228         28,0         0.13772           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86384         27,9         .13716           .928         .02819         59.5         .16506         31,7         .86312         27,8         .13660           .929         .02878         59.5         .16506         31,7         .86302         27,7         .13632           .930         .0.02937         59,4         .166570         31,7         .86305         27,7         .13605           .931         .02907         59,4         .16633         31,8         .86423         27,6         .13570 <tr< td=""><td></td><td></td><td>50.8</td><td></td><td></td><td></td><td>28.2</td><td></td></tr<>			50.8				28.2	
.923         .02520         59,7         .16348         31,6         .86172         28,1         .13828           .924         .02580         59,7         .16380         31,6         .86200         28,1         .13820           0.925         0.02640         59,6         0.16411         31,6         .86228         28,0         0.13772           .927         .02759         59,6         .16443         31,7         .86325         27,9         .13714           .928         .02810         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         9.86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86423         27,6         .13572      <			59,0					
.924         .02580         59,7         .16380         31,6         .86200         28,1         .13800           0.925         0.02640         59,6         0.16411         31,6         9.86228         28,0         0.13772           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86284         27,9         .13716           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         .166570         31,7         .86368         27,7         .13650           .931         .02997         59,4         .16602         31,7         .86368         27,7         .13652           .932         .03056         59,4         .16603         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16693         31,8         .86478         27,5         .13572 <t< td=""><td></td><td></td><td>59,0</td><td></td><td>31,0</td><td></td><td>20,2</td><td></td></t<>			59,0		31,0		20,2	
0.925         0.02640         59,6         0.16411         31,6         9.86228         28,0         0.13772           .926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86284         27,9         .13716           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         .86395         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         0.13632           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86450         27,5         .13522           0.935         .03293         59,2         .16761         31,9         .86533         27,4         .13467			59,7		31,0		20,1	.13020
.926         .02699         59,6         .16443         31,6         .86256         27,9         .13744           .927         .02759         59,6         .16475         31,7         .86284         27,9         .13746           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         .86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86478         27,5         .13552           0.934         .03175         59,3         .16729         31,8         .86478         27,5         .13522           0.935         .03234         59,3         .16729         31,9         .86533         27,4         .13467	.924	.02580	59,7	.10380	31,0	.80200	28,1	.13800
.927         .02759         59,6         .16475         31,7         .86284         27,9         .13716           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         9.86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16667         31,8         .86425         27,5         .13550           .934         .03175         59,3         .16697         31,8         .86505         27,4         0.13495           .935         .03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .937         .032353         59,2         .16761         31,9         .86533         27,4         0.13495	0.925	0.02640	59,6			9.86228		0.13772
.927         .02759         59,6         .16475         31,7         .86284         27,9         .13716           .928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         9.86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16667         31,8         .86425         27,5         .13550           .934         .03175         59,3         .16697         31,8         .86505         27,4         0.13495           .935         .03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .937         .032353         59,2         .16761         31,9         .86533         27,4         0.13495	.926	.02699	59,6	.16443	31,6	86256	27,9	.13744
.928         .02819         59,5         .16506         31,7         .86312         27,8         .13688           .929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         9.86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86450         27,5         .13522           0.934         .03175         59,3         .16697         31,8         .86478         27,5         .13522           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86505         27,4         .13460           .937         .03353         59,1         .16824         31,9         .86658         27,3         .13413	.927	.02759	59,6	. 16475	31,7	.86284	27,9	.13716
0.929         .02878         59,5         .16538         31,7         .86340         27,8         .13660           0.930         0.02937         59,4         0.16570         31,7         9.86368         27,7         0.13632           .931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86450         27,5         .13559           .934         .03175         59,3         .16697         31,8         .86478         27,5         .13552           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86500         27,3         .13440           .937         .03353         59,2         .16792         31,9         .86560         27,3         .13413           .938         .03412         59,1         .16824         31,9         .86657         27,2         .13385								. 13688
.931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86450         27,5         .13550           .934         .03175         59,3         .16697         31,8         .86478         27,5         .13522           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59,2         .16792         31,9         .86580         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13443           .939         .03471         59,1         .16888         31,9         .86642         27,1         0.13389           .940         .03530         59,1         0.16888         31,9         9.86642         27,1         0.13338      <	- 1							.13660
.931         .02997         59,4         .16602         31,7         .86395         27,7         .13605           .932         .03056         59,4         .16633         31,8         .86423         27,6         .13577           .933         .03116         59,3         .16665         31,8         .86450         27,5         .13550           .934         .03175         59,3         .16697         31,8         .86478         27,5         .13522           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59,2         .16792         31,9         .86580         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13443           .939         .03471         59,1         .16888         31,9         .86642         27,1         0.13389           .940         .03530         59,1         0.16888         31,9         9.86642         27,1         0.13338      <	0.020	0.02027	50.4	0.16570	27.77	0.86268	27 7	0 12622
.932								
.933         .03116         59,3         .16665         31,8         .86450         27,5         .13550           .934         .03175         59,3         .16697         31,8         .86478         27,5         .13552           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86533         27,4         .13407           .937         .03353         59,2         .16792         31,9         .86560         27,3         .13413           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86690         27,1         .13316           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13227					31,/	.60393	27,7	
.934         .03175         59,3         .16697         31,8         .86478         27,5         .13522           0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59,2         .16792         31,9         .86560         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86696         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86723         27,0         .13207           .944         .03766         58,9         .17048         32,0         .86723         27,0         .13270				.10033	31,0	.00423		
0.935         0.03234         59,3         0.16729         31,8         9.86505         27,4         0.13495           .936         .03293         59,2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59,2         .16792         31,9         .86580         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86690         27,0         .13304           .942         .03648         59,0         .16952         32,0         .86690         27,0         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13277           .944         .03766         58,9         .17016         32,0         .86770         26,9         .13275	•933			.10005	31,8			
.936         .03293         59.2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59.2         .16792         31,9         .86560         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86696         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16982         32,0         .86723         27,0         .13275           0.945         0.03825         58,9         .17016         32,0         .86777         26,9         .13250           0.946         .03884         58,0         .17080         32,0         .86804         26,8         .13106 <t< td=""><td>•934</td><td>.03175</td><td>59,3</td><td>,10097</td><td>31,8</td><td>.80478</td><td>27,5</td><td>.13522</td></t<>	•934	.03175	59,3	,10097	31,8	.80478	27,5	.13522
.936         .03293         59.2         .16761         31,9         .86533         27,4         .13467           .937         .03353         59.2         .16792         31,9         .86560         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86696         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16982         32,0         .86723         27,0         .13275           0.945         0.03825         58,9         .17016         32,0         .86777         26,9         .13250           0.946         .03884         58,0         .17080         32,0         .86804         26,8         .13106 <t< td=""><td>0.935</td><td>0.03234</td><td>59,3</td><td>0.16729</td><td>31,8</td><td>9.86505</td><td>27,4</td><td>0.13495</td></t<>	0.935	0.03234	59,3	0.16729	31,8	9.86505	27,4	0.13495
.937         .03353         59.2         .16792         31,9         .86560         27,3         .13440           .938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86669         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86669         27,1         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .1327           .944         .03766         58,9         .17016         32,0         .86750         26,9         .13250           0.945         0.03825         58,9         0.17048         32,0         9.86777         26,9         0.13223           .946         .03884         58,9         .17080         32,0         .86804         26,8         .13160      <				. 16761		.86533		.13467
.938         .03412         59,1         .16824         31,9         .86587         27,3         .13413           .939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86669         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13277           .944         .03766         58,9         .17016         32,0         .86750         26,9         .13276           0.945         0.03825         58,9         0.17048         32,0         .86804         26,8         .13196           .946         .03884         58,9         .17080         32,0         .86804         26,8         .13196           .947         .03943         58,8         .17112         32,1         .86830         26,7         .13143 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>								
.939         .03471         59,1         .16856         31,9         .86615         27,2         .13385           0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86669         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13277           .944         .03766         58,9         .17016         32,0         .86750         26,9         .13275           0.945         0.03825         58,9         0.17048         32,0         9.86777         26,9         0.13223           .946         .03884         58,9         .17080         32,0         .86804         26,8         .13196           .947         .03943         58,8         .17112         32,1         .86830         26,7         .13143           .948         .04001         58,8         .17144         32,1         .86857         26,7         .13143	028							
0.940         0.03530         59,1         0.16888         31,9         9.86642         27,1         0.13358           .941         .03589         59,0         .16920         32,0         .86669         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13277           .944         .03766         58,9         .17016         32,0         .86750         26,9         .13250           0.945         0.03825         58,9         0.17048         32,0         9.86777         26,9         0.13223           .946         .03884         58,9         .17080         32,0         .86804         26,8         .13190           .947         .03943         58,8         .17112         32,1         .86830         26,7         .13170           .948         .04001         58,8         .17144         32,1         .86857         26,7         .13143           .949         .04060         58,7         .17176         32,1         .86884         26,6         .13116				.16856		.86615	27,2	
.941         .03589         59,0         .16920         32,0         .86669         27,1         .13331           .942         .03648         59,0         .16952         32,0         .86696         27,0         .13304           .943         .03707         59,0         .16984         32,0         .86723         27,0         .13277           .944         .03766         58,9         .17016         32,0         .86750         26,9         .13250           0.945         0.03825         58,9         0.17048         32,0         9.86777         26,9         0.13223           .946         .03884         58,9         .17080         32,0         .86804         26,8         .13196           .947         .03943         58,8         .17112         32,1         .86830         26,7         .13170           .948         .04001         58,8         .17144         32,1         .86857         26,7         .13143           .949         .04060         58,7         .17176         32,1         .86884         26,6         .13116           0.950         0.04119         58,7         0.17208         32,1         9.86910         26,6        13090 <td></td> <td></td> <td>i</td> <td></td> <td></td> <td></td> <td></td> <td></td>			i					
.942       .03648       59,0       .16952       32,0       .86696       27,0       .13304         .943       .03707       59,0       .16984       32,0       .86723       27,0       .13277         .944       .03766       58,9       .17016       32,0       .86750       26,9       .13250         0.945       0.03825       58,9       0.17048       32,0       9.86777       26,9       0.13223         .946       .03884       58,9       .17080       32,0       .86804       26,8       .13196         .947       .03943       58,8       .17112       32,1       .86830       26,7       .13170         .948       .04001       58,8       .17144       32,1       .86857       26,7       .13143         .949       .04060       58,7       .17176       32,1       .86884       26,6       .13116         0.950       0.04119       58,7       0.17208       32,1       9.86910       26,6       .0.13090								
.943     .03707     59,0     .16984     32,0     .86723     27,0     .13277       .944     .03766     58,9     .17016     32,0     .86750     26,9     .13250       0.945     0.03825     58,9     0.17080     32,0     9.86777     26,9     0.13223       .946     .03884     58,9     .17080     32,0     .86804     26,8     .13196       .947     .03943     58,8     .17112     32,1     .86830     26,7     .13170       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6    013090	.941						27,1	
.943     .03707     59,0     .16984     32,0     .86723     27,0     .13277       .944     .03766     58,9     .17016     32,0     .86750     26,9     .13250       0.945     0.03825     58,9     0.17080     32,0     9.86777     26,9     0.13223       .946     .03884     58,9     .17080     32,0     .86804     26,8     .13196       .947     .03943     58,8     .17112     32,1     .86830     26,7     .13170       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6    013090	.942	.03648			32,0		27,0	
.944     .03766     58.9     .17016     32,0     .86750     26,9     .13250       0.945     0.03825     58,9     0.17048     32,0     9.86777     26,0     0.13223       .946     .03884     58,0     .17080     32,0     .86804     26,8     .13106       .947     .03943     58,8     .17112     32,1     .86830     26,7     .13170       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6    0.13090				16984	32,0		27,0	.13277
.946     .03884     58,9     .17080     32,0     .86804     26,8     .13196       .947     .03943     58,8     .17112     32,1     .86830     26,7     .13176       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6     0.13090				.17016				
.946     .03884     58,9     .17080     32,0     .86804     26,8     .13196       .947     .03943     58,8     .17112     32,1     .86830     26,7     .13176       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6     0.13090	0.045	0.03825	58.0	0.17048	32.0	9.86777	26.0	0.13223
.947     .03943     58,8     .17112     32,1     .86830     26,7     .13170       .948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6     .0.13090			1 50,9				26.8	
.948     .04001     58,8     .17144     32,1     .86857     26,7     .13143       .949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6     0.13090			20,9				26,0	
.949     .04060     58,7     .17176     32,1     .86884     26,6     .13116       0.950     0.04119     58,7     0.17208     32,1     9.86910     26,6     .0.13090	947		50,0				20,7	
0.950 0.04119 58,7 0.17208 32,1 9.86910 26,6 0.13090			58,8			.00057	20,7	
	•949	.04000	58,7	.17176	32,1	.80884	20,0	.13110
	0.950	0.04119	58,7	0.17208	32,1	9.86910	26,6	0.13090
	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

F	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
	0.950	0.04119	58,7	0.17208	32,1	9.86910	26,6	0.13090
	.951	.04178	58,7	. 17241	32,1	.86937	26,5	.13063
Н	.952	.04236	58,6	.17273	32,2	.86963	26,5	.13037
	953	.04295	58,6	.17305	32,2	.86990	26,4	.13010
	954	.04353	58,6	.17337	32,2	.87016	26,4	. 12984
	0.955	0.04412	58,5	0.17369	32,2	9.87043		0.12957
1	.956	.04470	58,5	.17402	32,2	87069	26,2	.12931
I	•957	.04529	58,5	17434	32,3	87095	26,2	12905
-	.958	.04587	58,4	.17466	32,3	.87121	26,1	.12879
	959	.04646	58,4	.17498	32,3	.87147	26,1	.12853
	0.960	0.04704	58,4	0.17531	32,3	9.87173	26,0	0.12827
	961	.04763	58,3	.17563	32,3	.87199	26,0	.12801
	962	.04821	58,3	17595	32,4	.87225	25,9	.12775
1	.963	.04879	58,2 58,2	. 17628 . 17660	32,4	.87251 .87277	25,9 25,8	.12749
	.964	.04937	** * * * * * * * * * * * * * * * * * * *		32,4	A STATE OF THE STA		
	0.965	0.04996	58,2 58,1	0.17693	32,4	9.87303	25,8	0.12697 .12671
	.966 .967	.05054	58,1 58,1	.17725 .17757	32,4 32,5	.87329 .87354	25,7 25,7	.12646
	.968	.05170	58,1		32,5	.87380	25,6	12620
	.969	.05228	58,0	.17790 .17822	32,5	.87406	25,5	.12594
		Grant Constitutions						
	0.970	0.05286	58,0	0.17855	32,5	9.87431	25,5	0.12569
	.971	.05344	58,0	. 17887	32,5	.87456	25,4	.12544
	.972	.05402	57.9	.17920	32,6 32,6	.87482 .87507	25,4	.12516
	973	.05460	57,9 57,9	.17953 .17985	32,6	.87533	25,3 25,3	.12467
	•974	.05510						
H	0.975	0.05576	57,8	0.18018	32,6	9.87558	25,2	0.12442
Н	.976	.05633	57,8	.18050	32,6	.87583	25,2	.12417
П	.977	.05691	57,8	. 18083	32,6	.87608	25,1	.12392
	.978	.05749	57.7	.18116 .18148	32,7 32,7	.87633 .87658	25,1 25,0	. 12367 . 12342
1	979		57,7		34,7	<b>l</b> .		
. 1	0.980	0.05864	57,7	0.18181	32,7	9.87683	25,0	0.12317
	.981	.05922	57,6	. 18214	32,7	.87708	24,9	.12292
П	.982	.05980	57,6	.18246	32,7	.87733	24,9	.12267
	.983	.06037	57,6	.18279	32,8	.87758	24,8 24,8	.12242
.	.984	.06095	57,5	,10312	32,8	.87783	24,0	.1221/
	0.985	0.06152	57,5	0.18345	32,8	9.87807	24,7	0.12193
	.986	.06210	57,5	.18378	32,8	.87832	24,7	.12168
	.987	.06267	57,4	.18410	32,8	.87857	24,6	.12143
	.988	.06325	57,4	.18443	32,9	.87881 .87906	24,6	.12119
	.989	.06382	57,4		32,9		24,5	.12094
	<b>0.9</b> 90	0.06439	57,3	0.18509	32,9	9.87930	24,5	0.12070
	.991	.06497	57,3	.18542	32,9	.87955	24,4	.12045
	.992	.06554	57,3	.18575	32,9	.87979 .88003	24,3	.12021
1	993	.06669	57,2 57,2	.18641	32,9	.88028	24,3 24,2	11997
	•994				33,0			
	0.995	0.06726	57,2	0.18674 .18707	33,0	9.88052	24,2 24,1	0.11948 .11924
	.996	.06840	57,2 57,1	18740	33,0 33,0	.88100	24,1	.11900
	.997 .998	.06897	57,1	.18773	33,0	.88124	24,0	.11876
<b>.</b>	.999	.06954	57,1	.18806	33,1	.88148	24,0	.11852
	1.000	0.07011	57,0	0.18839	33,1	9.88172	23,9	0.11828
	и	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log csc gd u

.001	7011 5 7068 5 7125 5 7125 5 7126 5 7239 5 7296 5 7296 5 7466 5 7466 5 7523 5 7580 5 7637 5 7693 5 7750 5 7807 5 7863 5 7920 5 7863 5 7920 5 8083 5 8089 5 8146 5 8202 5 8258 5 8315 5	57,0 57,0 57,0 57,0 56,9 56,9 56,8 56,8 56,8 56,7 56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5 56,5 56,5	. 18839 . 18872 . 18972 . 18938 . 18971 . 19004 . 19038 . 19071 . 19104 . 18137 . 19204 . 19237 . 19270 . 19337 . 19471 . 19504 . 19537 . 19571 . 19504 . 19638	33,1 33,1 33,1 33,1 33,1 33,2 33,2 33,2	9.88172 .88196 .88220 .88244 .88268 9.88291 .88315 .88339 .88362 .88366 9.88409 .88433 .88456 .88430 .88503 9.88526 .88595 .88519	23,9 23,9 23,8 23,8 23,7 23,7 23,6 23,6 23,5 23,4 23,4 23,3 23,2 23,1 23,1 23,0 22,9 22,9 22,8	0.11828 .11804 .11780 .11756 .11732 0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11540 .1144 .11520 .11474 .11451 .11428 .11405 .11381
.001	7068   57068   57125   57182   57182   57182   57239   57353   57410   57440   57460   57523   57580   57637   57693   57750   57807   57807   57807   57807   57807   57807   57807   57807   57807   57807   57807   57863   57920   57976   558033   558089   558258	57,0 57,0 56,9 56,9 56,9 56,8 56,8 56,7 56,7 56,7 56,7 56,7 56,7 56,5 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 18872 . 18905 . 18938 . 18971 . 19004 . 19038 . 19971 . 19104 . 19171 . 19171 . 19204 . 19237 . 19270 . 19337 . 19370 . 19437 . 19471 . 19504 . 19531 . 19531 . 19504 . 19531 . 19504	33,1 33,1 33,1 33,2 33,2 33,2 33,3 33,3	.88196 .88220 .88244 .88268 9.88291 .88315 .88339 .88366 9.88409 .88433 .88456 .88480 .88503 9.88526 .88595 .88519	23,9 23,8 23,8 23,7 23,7 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11804 .11780 .11756 .11732 0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.002	7125   5 7182   5 7182   5 7182   5 7239   5 7296   5 7353   5 7410   5 7466   5 7523   5 7580   5 7637   5 7693   5 7693   5 7807   5 7863   5 7863   5 7863   5 7863   5 7863   5 8863   5 8863   5 8863   5 8863   5 88689   5 88146   5 88202   5 88258   5 88315   5	57,0 56,9 56,9 56,8 56,8 56,7 56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 18905 . 18938 . 18971 . 19004 . 19038 . 19071 . 19104 . 18137 . 19171 . 19204 . 19237 . 19270 . 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19504 . 19504 . 19504	33,1 33,1 33,1 33,2 33,2 33,2 33,3 33,3	.88220 .88244 .88268 9.88291 .88315 .88339 .88362 .88386 9.88409 .88433 .88456 .88430 .88503 9.88526 .88549 .88572 .88595 .88619	23,9 23,8 23,8 23,7 23,7 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11780 .11756 .11732 0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11428 .11405 .11381
.003	7182   5 7239   5 7239   5 7353   5 7410   5 7466   5 7523   5 7580   5 7637   5 7693   5 7750   5 7863   5 7863   5 7863   5 7863   5 8089   5 8146   5 8202   5 8258   5 8315   5	56,9 56,9 56,8 56,8 56,7 56,7 56,7 56,6 56,6 56,5 56,5 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 18938 . 18971 . 19004 . 19038 . 19071 . 19104 . 18137 . 19171 . 19204 . 19237 . 19370 . 19337 . 19370 . 19471 . 19504 . 19537 . 19504 . 19504 . 19504	33,1 33,1 33,2 33,2 33,2 33,3 33,3 33,3	.88244 .88268 9.88291 .88315 .88339 .88362 .88366 9.88409 .88433 .88456 .88450 .88503 9.88526 .88572 .88595 .88619 9.88642 .88687	23,8 23,7 23,7 23,6 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,3 23,2 23,1 23,0 23,0 22,9 22,9	0.11756 .11732 0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.004	7239 5 7296 5 7353 5 7410 5 7466 5 7523 5 7580 5 7637 5 7693 5 7750 5 7807 5 7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8258 5 8315 5	56,9 56,9 56,8 56,8 56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5 56,4 56,4 56,4 56,4 56,4	.18971 .19004 .19038 .19071 .19104 .18137 .19171 .19204 .19237 .19270 .19304 .19337 .19370 .19471 .19504 .19537 .19504 .19557 .19504	33,1 33,1 33,2 33,2 33,2 33,3 33,3 33,3	.88268  9.88291 .88315 .88339 .88362 .88386  9.88409 .88433 .88456 .88503  9.88526 .88549 .88572 .88595 .88619	23,8 23,7 23,7 23,6 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,3 23,2 23,1 23,0 23,0 22,9 22,9	0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
1.005 0.00 .006 .007 .008 .007 .008 .009 .009 .001 .011 .002 .013 .004 .016 .007 .016 .007 .017 .007 .018 .006 .019 .006 .021 .006 .022 .006 .024 .006 .025 .026 .026 .026 .027 .006 .027 .006 .027 .006 .028 .006 .029 .006 .029 .006 .021 .006 .021 .006 .025 .006 .026 .006 .027 .006 .028 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .029 .006 .031 .006 .031 .006 .031 .006 .033 .006 .037 .036 .006 .037 .036 .006 .037 .038 .006 .039 .009	7296 5 7353 5 7410 5 7466 5 7523 5 7580 5 7637 5 7693 5 7750 5 7807 5 7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8202 5 8315 5	56,9 0 56,8 56,8 56,7 56,7 56,7 56,6 56,6 56,5 56,5 56,4 56,4 56,4 56,4	. 19004 . 19038 . 19071 . 19104 . 18137 . 19171 . 19204 . 19237 . 19270 . 19304 . 19337 . 19370 . 19440 . 19437 . 19471 . 19504 . 19531 . 19504 . 19504	33,1 33,2 33,2 33,2 33,2 33,3 33,3 33,3	.88268  9.88291 .88315 .88339 .88362 .88386  9.88409 .88433 .88456 .88503  9.88526 .88549 .88572 .88595 .88619	23,7 23,6 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,2 23,1 23,1 23,0 22,9 22,9	0.11709 .11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.006 .07 .007 .008 .009 .009 .001 .001 .001 .001 .001 .001	7353 5 7410 5 7466 5 7523 5 7580 5 7637 5 7637 5 7863 5 7863 5 7863 5 8863 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,8 56,8 56,7 56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 19038 . 19071 . 19104 . 18137 . 19171 . 19204 . 19237 . 19270 . 19304 . 19337 . 19370 . 19471 . 19504 . 19537 . 19571 . 19504	33,2 33,2 33,2 33,3 33,3 33,3 33,3 33,4 33,4	.88315 .88339 .88362 .88386 9.88409 .88433 .88456 .88480 .88503 9.88526 .88549 .88572 .88595 .88619	23,7 23,6 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,3 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.006 .07 .007 .008 .009 .009 .001 .001 .001 .001 .001 .001	7353 5 7410 5 7466 5 7523 5 7580 5 7637 5 7637 5 7863 5 7863 5 7863 5 8863 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,8 56,8 56,7 56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 19038 . 19071 . 19104 . 18137 . 19171 . 19204 . 19237 . 19270 . 19304 . 19337 . 19370 . 19471 . 19504 . 19537 . 19571 . 19504	33,2 33,2 33,2 33,3 33,3 33,3 33,3 33,4 33,4	.88315 .88339 .88362 .88386 9.88409 .88433 .88456 .88480 .88503 9.88526 .88549 .88572 .88595 .88619	23,7 23,6 23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,3 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11685 .11661 .11638 .11614 0.11591 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.007 .008 .00 .009 .009 .009 .001 .002 .003 .009 .009 .009 .009 .009 .009 .009	7410 5 7466 5 7523 5 7580 5 7637 5 7693 5 7750 5 7807 5 7863 5 7807 5 8033 5 8089 5 8146 5 8228 5 8315 5	56,8 56,7 56,7 56,7 56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	.19071 .19104 .18137 .19171 .19204 .19237 .19270 .19304 .19337 .19370 .19404 .19437 .19471 .19504 .19537 .19504	33,2 33,2 33,3 33,3 33,3 33,3 33,3 33,4 33,4	.88339 .88362 .88386 9.88409 .88433 .88456 .88450 .88503 9.88526 .88549 .88572 .88595 .88619 9.88642 .88687	23,6 23,5 23,5 23,4 23,4 23,3 23,3 23,2 23,1 23,1 23,0 22,9 22,9	0.11591 .11567 .11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.008 .09 .009 .09 .001 .001 .001 .011 .09 .012 .09 .013 .09 .014 .09 .016 .09 .017 .09 .018 .06 .019 .06 .021 .06 .021 .06 .021 .06 .022 .06 .024 .06 .024 .06 .027 .06 .026 .026 .027 .06 .027 .06 .028 .06 .029 .06 .031 .06 .033 .06 .037 .06 .037 .06	7466   5 7523   5 7580   5 7637   5 7693   5 7750   5 7807   5 7863   5 7920   5 8033   5 8033   5 8089   5 8146   5 8202   5 8258   5 8315   5	56,8 56,7 56,7 56,7 56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4 56,4	.19104 .18137 .19171 .19204 .19237 .19270 .19304 .19337 .19370 .19404 .19437 .19471 .19504 .19537 .19504 .19537 .19504	33,2 33,3 33,3 33,3 33,3 33,3 33,4 33,4	.88362 .88386 9.88409 .88433 .88456 .88480 .88503 9.88526 .88549 .88572 .88519 9.88642 .88687	23,6 23,5 23,4 23,4 23,3 23,3 23,2 23,1 23,1 23,0 22,9 22,9	0.11591 11567 11567 11544 11520 11497 0.11474 11428 11405 11381 0.11358 11336
.009 .00  1.010 0.01 .011 .00 .011 .00 .012 .00 .013 .00 .014 .00 .016 .00 .017 .00 .018 .00 .019 .00 .021 .00 .021 .00 .022 .00 .024 .00 .024 .00 .025 .026 .026 .026 .026 .026 .027 .06 .028 .06 .029 .06 .029 .06 1.030 0.06 .031 .06 .031 .06 .031 .06 .033 .06 .034 .06 1.035 0.06 .037 .036 .037 .036 .038 .039	7523 5 7580 5 7580 5 7637 5 7693 5 7750 5 7863 5 7863 5 7920 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,7 o 56,7 s6,7 s6,7 s6,6 s6,6 s6,5 s6,5 s6,5 s6,4 s6,4 s6,4 s6,4 s6,4 s6,3	. 18137 . 19171 . 19204 . 19230 . 19270 . 19370 . 19337 . 19471 . 19504 . 19537 . 19571 . 19604	33,2 33,3 33,3 33,3 33,3 33,3 33,4 33,4	.88386  9.88409 .88433 .88456 .88480 .88503  9.88526 .88572 .88595 .88619  9.88642 .88687	23,5 23,4 23,4 23,3 23,3 23,3 23,2 23,2 23,1 23,1 23,0 23,0 22,9 22,9	0.11591 11567 11544 11520 11497 0.11474 11451 11428 11405 11381 0.11358 11336
.011 .02 .012 .07 .013 .07 .014 .07 .016 .07 .017 .07 .018 .06 .017 .07 .018 .06 .021 .06 .021 .06 .022 .06 .023 .06 .024 .06 .024 .06 .025 .06 .027 .06 .026 .06 .027 .06 .027 .06 .029 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .032 .06 .033 .06 .034 .06	7580 5 7637 5 7693 5 7750 5 7807 5 7863 5 7920 5 7920 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,7 56,7 56,7 56,6 56,6 56,6 56,5 56,5	. 19171 . 19204 . 19237 . 19270 . 19304 . 19337 . 19340 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,3 33,3 33,3 33,3 33,4 33,4 33,4	9.88409 .88433 .88456 .88480 .88503 9.88526 .88549 .88572 .88595 .88619 9.88642 .88687	23,5 23,4 23,4 23,3 23,3 23,2 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.011 .02 .012 .07 .013 .07 .014 .07 .016 .07 .017 .07 .018 .06 .017 .07 .018 .06 .021 .06 .021 .06 .022 .06 .023 .06 .024 .06 .024 .06 .025 .06 .027 .06 .026 .06 .027 .06 .027 .06 .029 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .032 .06 .033 .06 .034 .06	7637 5 7693 5 7759 5 7863 5 7863 5 7920 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56.7 56.7 56.6 56.6 56.5 56.5 56.5 56.5 56.4 56.4 56.4 56.4 56.4	. 19204 . 19237 . 19270 . 19304 . 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,3 33,3 33,3 33,4 33,4 33,4 33,4	.88433 .88456 .88480 .88503 9.88526 .88549 .88572 .88619 9.88642 .88664 .88687	23,4 23,4 23,3 23,3 23,2 23,2 23,1 23,1 23,0 22,9 22,9	.11567 .11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381
.012 .07 .013 .07 .014 .07 .015 .0.07 .016 .07 .018 .06 .019 .06 .021 .06 .022 .06 .023 .06 .024 .06 .025 .026 .026 .027 .028 .06 .029 .06 .031 .06 .033 .06 .034 .06	7693 5 7750 5 7807 5 7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,7 56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 19237 . 19270 . 19304 . 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,3 33,3 33,4 33,4 33,4 33,4 33,5 33,5	.88456 .88480 .88503 9.88526 .88549 .88572 .88595 .88619 9.88642 .88664 .88687	23,4 23,3 23,3 23,2 23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11544 .11520 .11497 0.11474 .11451 .11428 .11405 .11381 0.11358 .11336
.013 .00 .014 .00 .014 .00 .016 .00 .017 .00 .018 .00 .019 .00 .021 .00 .022 .00 .023 .00 .024 .00 .025 .026 .026 .026 .027 .00 .028 .00 .029 .00 .031 .00 .033 .00 .034 .00	7750 5 7863 5 7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8258 5 83315 5	56,6 56,6 56,5 56,5 56,5 56,4 56,4 56,4 56,4 56,4	. 19270 . 19304 . 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,3 33,4 33,4 33,4 33,4 33,5 33,5	.88480 .88503 9.88526 .88549 .88572 .88595 .88619 9.88642 .88664 .88687	23,3 23,3 23,2 23,2 23,1 23,1 23,0 23,0 22,9 22,9	0.11474 11497 0.11474 11451 11428 11405 11381 0.11358 11336
.014 .02 1.015 0.02 .016 .07 .018 .06 .017 .07 .018 .06 .019 .06 1.020 0.06 .021 .06 .022 .06 .023 .06 .024 .06 1.025 0.06 .026 .026 .027 .06 .027 .06 .028 .06 .029 .06 .031 .06 .031 .06 .031 .06 .031 .06 .032 .06 .033 .06 .034 .06 1.035 0.06 .036 .036 .06 .037 .038 .09 .039 .09	7807 5 7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,6 o 56,5 56,5 56,4 o 56,4 o 56,4 56,4 56,4 56,3	. 19304 . 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,4 33,4 33,4 33,4 33,5 33,5	.88503 9.88526 .88549 .88572 .88595 .88619 9.88642 .88684 .88687	23,3 23,2 23,2 23,1 23,0 23,0 22,9 22,9	0.11497 0.11474 .11451 .11428 .11405 .11381 0.11358 .11336
1.015 0.00 .016 .00 .017 .00 .018 .018 .019 .06 .021 .06 .021 .06 .022 .06 .023 .06 .024 .06 .027 .06 .027 .06 .029 .06 .029 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .033 .06 .034 .06	7863 5 7920 5 7976 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,6 0 56,5 56,5 56,5 56,4 0 56,4 0 56,4 56,4 56,3	. 19337 . 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,3 33,4 33,4 33,4 33,4 33,5 33,5	9.88526 .88549 .88572 .88595 .88619 9.88642 .88664 .88687	23,2 23,2 23,1 23,1 23,0 23,0 22,9 22,9	0.11474 .11451 .11428 .11405 .11381 0.11358 .11336
.016 .07 .07 .018 .019 .019 .019 .019 .019 .019 .019 .019	7920 5 7976 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,5 56,5 56,4 56,4 56,4 56,4 56,4 56,4	. 19370 . 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,4 33,4 33,4 33,4 33,5 33,5	.88549 .88572 .88595 .88619 9.88642 .88664 .88687	23,2 23,1 23,1 23,0 23,0 22,9 22,9	.11451 .11428 .11405 .11381 0.11358 .11336
.017 .07 .07 .018 .06 .019 .06 .021 .06 .021 .06 .023 .06 .024 .06 .025 .026 .026 .026 .027 .08 .029 .08 .029 .08 .031 .032 .036 .031 .032 .036 .034 .08 .037 .036 .037 .038 .039 .039	7976 5 8033 5 8089 5 8146 5 8202 5 8258 5 8315 5	56,5 56,5 56,4 56,4 56,4 56,4 56,3	. 19404 . 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,4 33,4 33,4 33,5 33,5	.88572 .88595 .88619 9.88642 .88664 .88687	23,1 23,1 23,0 23,0 22,9 22,9	.11428 .11405 .11381 0.11358 .11336
.018 .06 .019 .06 .019 .06 .021 .06 .021 .06 .023 .06 .024 .06 .025 .026 .06 .027 .06 .027 .028 .06 .029 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .033 .06 .033 .06 .034 .06	8033   5 8089   5 8146   5 8202   5 8258   5 8315   5	56,5 56,4 56,4 0 56,4 56,4 56,3	. 19437 . 19471 . 19504 . 19537 . 19571 . 19604	33,4 33,4 33,5 33,5	.88595 .88619 9.88642 .88664 .88687	23,1 23,0 23,0 22,9 22,9	0.11358 .11336 .11313
1.020 0.06 1.020 0.06 1.021 0.06 1.022 0.06 1.023 0.06 1.025 0.06 1.027 0.06 1.027 0.06 1.030 0.06 1.031 0.06 1.031 0.06 1.032 0.06 1.033 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.035 0.06 1.037 0.06 1.037 0.06 1.039 0.06	8089 5 8146 5 8202 5 8258 5 8315 5	56,4 56,4 56,4 56,4 56,3	. 19471 . 19504 . 19537 . 19571 . 19604	33,4 33,5 33,5	.88619 9.88642 .88664 .88687	23,0 23,0 22,9 22,9	0.11358 0.11358 .11336 .11313
1.020 0.06 .021 .06 .022 .06 .023 .06 .024 .06  1.025 0.06 .027 .06 .028 .06 .029 .06  1.030 0.06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06 .031 .06	8146 59 8202 59 8258 59 8315 59	56,4 o 56,4 56,4 56,3	. 19504 . 19537 . 19571 . 19604	33,4 33,5 33,5	9.88642 .88664 .88687	23,0 22,9 22,9	0.11358 .11336 .11313
.021 .06 .022 .06 .023 .06 .024 .06 .026 .06 .026 .06 .027 .06 .028 .06 .029 .06 .031 .06 .031 .06 .031 .06 .033 .06 .034 .06 .036 .03 .036 .036 .037 .038 .03 .039 .039	8202 56 8258 56 8315 56	56,4 56,4 56,3	. 19537 . 19571 . 19604	33,5 33,5	.88664 .88687	22,9 22,9	.11336
.022 .06 .023 .06 .024 .06 .025 .0.6 .026 .06 .027 .06 .029 .06 .031 .06 .031 .06 .031 .06 .034 .06 .034 .06 .035 .036 .03 .036 .037 .036 .037 .038 .039	8258 50 8315 50	56,4 56,3	.19571 .19604	33,5	.88687	22,9	.11313
.023 .06 .024 .06  1.025 0.06 .026 .05 .027 .08 .029 .06  1.030 0.06 .031 .06 .032 .06 .033 .06 .034 .06  1.035 0.06 .037 .036 .037 .03 .038 .03 .039 .09	8315 5	56,3	. 19604	33,5 33,5			
1.025 0.06 1.025 0.06 0.027 .06 0.028 .06 0.029 .06 1.030 0.06 0.031 .06 0.032 .06 0.034 .06 1.035 0.06 0.036 .09 0.037 .09 0.038 .09	8371 5	56,3 56.3		33,5	1 VV~~~	l າາ X	
1.025 0.06 .026 .027 .028 .05 .029 .06 1.030 0.06 .031 .06 .032 .06 .033 .06 .034 .06 1.035 0.06 .036 .09 .037 .09 .038 .09	3371 5	50.3	. TOD2X		.88710		.11290
.026 .06 .027 .06 .028 .06 .029 .06 .031 .06 .031 .06 .033 .06 .034 .06 .036 .09 .037 .09 .038 .09 .039 .09		50,5	. 19030	33,5	.88733	22,8	.11267
.027 .08 .06 .029 .06 .031 .08 .032 .06 .034 .08 .034 .08 .036 .036 .037 .038 .039 .039			.19671	33,5	9.88756	22,7	0.11244
.028 .05 .029 .06 .029 .06 .031 .06 .032 .05 .033 .06 .034 .06 .035 .036 .036 .09 .037 .09 .038 .09			. 19705	33,5	.88779	22,7	.11221
.029 .08 1.030 0.06 0.031 .05 .032 .06 .033 .08 .034 .08 1.035 0.06 .036 .09 .037 .09 .038 .09			. 19738	33,6	.88801	22,6	.11199
1.030 0.06 .031 .05 .032 .06 .033 .06 .034 .06  1.035 0.06 .036 .06 .037 .06 .037 .06 .038 .06	3596 50		.19772	33,6	88824	22,6	.11176
.031 .06 .032 .06 .033 .08 .034 .08  1.035 0.06 .036 .09 .037 .09 .038 .09 .039 .09	3652 5	56,1	.19806	33,6	.88846	22,6	.11154
.032 .08 .033 .08 .034 .08  1.035 0.08 .036 .09 .037 .09 .038 .09 .039 .09			. 19839	33,6	9.88869	22,5	0.11131
.033 .06 .034 .08 1.035 0.06 .036 .09 .037 .09 .038 .09 .039 .09	3764 5	56,1	. 19873	33,6	.88891	22,5	.11109
.034 .08 1.035 0.08 .036 .09 .037 .09 .038 .09 .039 .09			.19905	33,6	.88914	22,4	.11086
1.035 0.08 .036 .09 .037 .09 .038 .09 .039 .09	3876 5		. 19940	33,7	.88936	22,4	.11064
.036 .09 .037 .09 .038 .09	3932 5	56,0	19974	33,7	.88959	22,3	.11041
.037 .09 .038 .09 .039 .09	3988 50	56,0 0	.20007	33,7	9.88981	22,3	0.11019
.038 .09	0044 5.	55,9	.20041	33,7	.89003	22,2	. 10997
.039 .09			.20075	33,7	.89025	22,2	.10975
			.20109	33.7	.89048	22,1	.10952
1.0/0 0.00	212 5		.20142	33,8	.89070	22,1	.10930
1 2.040   0.05	9268 5	55,8 o	.20176	33,8	9.89092	22,0	0.10908
.041 .09	324 5		.20210	33,8	.89114	22,0	. 10886
.042 .09	0379 5.	55,8	.20244	33,8	.89136	22,0	.10864
.043	9435 5.	55,7	.20278	33,8	.89158	21,9	. 10842
			.20311	33,9	.89180	21,9	.10820
1.045 0.09	0491 5	55,7 0	.20345	33,9	9.89201	21,8	0.10799
		5011	20379	33,9	.89223	21,8	10777
	9547 5	55.7	20413	33,9	.89245	21,7	. 10755
	9547 5. 9602 5.		20447	33,9	.89267	21,7	. 10733
	9547 5. 9602 5. 9658 5.	55,6		33,9	.89288	21,6	.10712
1.050 0.09	9547 5. 9602 5. 9658 5.	55,6 55,6	.20481			21,6	0.10690
u log tan	9547 5. 9602 5. 9658 5. 9714 5. 9769 5.	55,6 55,6 55,6	.20481	34,0	9.89310	,0	

F								
I	u .	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
-	1.050	0.09825	55,6	0.20515	34,0	9.89310	21,6	0.10690
H	.051	.09880	55,5	.20549	34,0	.89331	21,6	. 10669
Ш	.052	.09936	55,5	.20583	34,0	.89353	21,5	.10647
	.053	.09991	55,5	.20617	34,0	.89375	21,5	. 10625
	.054	.10047	55,4	.20651	34,0	.89396	21,4	. 10604
	1.055	0.10102	55,4	0.20685	34,0	9.89417	21,4	0.10583
	.056	. 10158	55,4	.20719	34,1	.89439	21,3	. 10561
1	.057	.10213	55,4	.20753	34,1	.89460	21,3	. 10540
	.058	.10268	55,3	.20787	34,1	.89481	21,2	. 10519
	.059	.10324	55,3	.20821	34,1	.89502	21,2	.10498
	1.060	0.10379	55,3	0.20855	34,1	9.89524	21,2	0.10476
	:061	.10434	55,3	.20889	34, i	.89545	21,1	.10455
	.062	. 10489	55,2	.20924	34,2	.89566	21,1	. 10434
	.063	.10545	55,2	.20958	34,2	.89587	21,0	.10413
۱	.064	.10600	55,2	.20992	34,2	.89608	21,0	.10392
	1.065	0.10655	55,1	0.21026	34,2	9.89629	20,9	0.10371
	.066	.10710	55,1	.21060	34,2	.89650	20,9	.10350
Ш	.067	. 10765	55,1	.21094	34,2	.89671	20,9	.10329
	.068	. 10820	55,1	.21129	34,3	.89692	20,8	. 10308
	.069	. 10875	55,0	.21163	34,3	.89712	20,8	.10288
	1.070	0.10930	55,0	0.21197	34,3	9.89733	20,7	0.10267
- 11	.071	. 10985	55,0	.21232	34,3	.89754	20,7	.10246
	.072	.11040	55,0	.21266	34,3	.89774	20,6	. 10226
	.073	.11095	54,9	.21300	34,3	.89795	20,6	.10205
	.074	.11150	54,9	.21335	34,4	.89816	20,6	.10184
	1.075	0.11205	54,9	0.21369	34,4	9.89836	20,5	0.10164
1	076	.11260	54,9	.21403	34,4	.89857	20,5	.10143
Ш	.077	.11315	54,8	.21438	34,4	.89877	20,4	.10123
	.078	.11370	54,8	.21472	34,4	.89898	20,4	.10102
	.079	.11424	54,8	.21507	34,4	.89918	20,3	.10082
	1.080	0.11479	54,8	0.21541	34,4	9.89938	20,3	0.10062
- 11	.081	11534	54,7	.21575	34,5	.89959	20,3	.10041
	.082	.11589	54,7	.21610	34,5	.89979	20,2	.10021
Ш	.083	.11643	54,7	.21644	34,5	89999	20,2	.10001
	.084	.11698	54,7	.21679	34,5	.90019	20,1	.09981
	1.085	0.11753	54,6	0.21713	34,5	9.90039	20,1	0.09961
	.086	.11807	54,6	.21748	34.5	.90059	20,1	.09941
	.087	.11862	54,6	.21782	34,6	.90079	20,0	.09921
	.088	11916	54,5	.21817	34,6	.90099	20,0	100001
	.089	.11971	54,5	.21852	34,6	.90119	19,9	.09881
	1.090	0.12025	54,5	0.21886	34,6	9.90139	19,9	0.09861
	.091	.12080	54,5	.21921	34,6	.90159	19,9	.0984r
	.092	.12134	54,4	.21955	34,6	.90179	10.8	.00821
	.093	.12189	54,4	.21990	34,7	.90199	··· 19,8	.098or
	.094	.12243	54,4	.22025	34,7	.90218	19,7	.09782
	1.095	0.12298	54,4	0.22059	34,7	9.90238	19,7	0.09762
- [	.096	12352	54,4	.22094	34,7	.90258	19,6	.09742
	.097	12406	54,3	.22129	34.7	.90277	19,6	.09723
	.098	.12461	54,3	.22164	34,7	.90297	19,6	.09703
	.099	.12515	54,3	.22198	34,7	.90317	19,5	.09683
I	1.100	0.12569	54,3	0.22233	34,8	9.90336	19,5	0.09664
ı	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u
					·			a di anti da

101	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
101	1.100	0.12569	54,3	0.22233	34,8	9.90336	19,5	0.09664
102   1.12678	.101	.12623		.22268	34,8	.90356	19,4	.09644
103	.102	12678		.22303	34,8			.09625
1.10    1.12786    54,2   2.2372   34,8   .90414   19,3   .09586     1.105	.103	.12732		.22337				.09606
1.106   1.2849	.104			.22372	34,8		19,3	.09586
1.106   1.2849	1.105	0.12840	54,1	0.22407	34,8	9.90433	19,3	0.09567
1.107	.106	.12894		.22442		.90452		.09548
1.108	.107	.12948	54,1	.22477	34,9	.90472	19,2	.09528
1.100	.108	.13002	54,1	.22512	34,9	.90491	19,2	.09509
111	.109			.22547				.09490
111	1.116	0.13111	54,0	0.22582	34.9	9,90529	10.1	0.00471
112	1							
. 113				.22651				
114								
. 116								.09395
. 116	1.115	0.13380	53.9	0.22756	35.0	9.90624	18,0	0.00376
117			53.9					
118			53,8					
1.19			53.8	.22861				
121	.119		53,8	.22896		.90699	18,7	.09301
121	1.120	0.13640	53.8	0.22031	35,1	0.90718	18.7	0.00282
1.122	.121		53,8	.22967			18,7	.09263
123	.122			.23002			18,6	.0024
1.124	.123	.13811		.23037		.90774	18,6	.09226
.126         .13972         53,6         .23142         35,2         .90830         18,5         .09170           .127         .14025         53,6         .23177         35,2         .90848         18,4         .09152           .128         .14079         53,6         .23213         35,2         .90866         18,4         .09152           .129         .14133         53,6         .23248         35,2         .90885         18,4         .09115           1.130         .14186         53,5         0.23283         35,2         9.90903         18,3         0.09097           .131         .14240         53,5         .23318         35,2         .90921         18,3         .09070           .132         .14293         53,5         .23389         35,3         .90940         18,3         .09060           .134         .14400         53,5         .23424         35,3         .90958         18,2         .09042           1.135         0.14454         53,4         0.23459         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23530         35,3         .91012         18,1         .08970 <tr< td=""><td>.124</td><td>.13864</td><td></td><td>.23072</td><td></td><td>.90792</td><td>18,6</td><td>.09208</td></tr<>	.124	.13864		.23072		.90792	18,6	.09208
.126         .13972         53,6         .23142         35,2         .90830         18,5         .09170           .127         .14025         53,6         .23177         35,2         .90848         18,4         .09152           .128         .14079         53,6         .23213         35,2         .90866         18,4         .09152           .129         .14133         53,6         .23248         35,2         .90885         18,4         .09115           1.130         .14186         53,5         0.23283         35,2         9.90903         18,3         0.09097           .131         .14240         53,5         .23318         35,2         .90921         18,3         .09070           .132         .14293         53,5         .23389         35,3         .90940         18,3         .09060           .134         .14400         53,5         .23424         35,3         .90958         18,2         .09042           1.135         0.14454         53,4         0.23459         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23530         35,3         .91012         18,1         .08970 <tr< td=""><td>1.125</td><td>0.13018</td><td>53.7</td><td>0.23107</td><td>35,1</td><td>9.90811</td><td>18,5</td><td>0.00180</td></tr<>	1.125	0.13018	53.7	0.23107	35,1	9.90811	18,5	0.00180
.127         .14025         53.6         .23177         35,2         .90848         18,4         .09152           .128         .14079         53.6         .23213         35,2         .90865         18,4         .09134           .129         .14133         53,6         .23248         35,2         .90885         18,4         .09152           1.130         0.14186         53,5         0.23283         35,2         9.90903         18,3         0.09097           .131         .14240         53,5         .23318         35,2         .90921         18,3         .09076           .132         .14293         53,5         .23353         35,3         .90958         18,2         .09042           .134         .14400         53,5         .23349         35,3         .90958         18,2         .09042           1.135         0.14454         53,4         0.23459         35,3         .90976         18,2         .09024           1.135         0.14454         53,4         0.23459         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23530         35,3         .91012         18,1         .08962	.126	.13972	53,6	.23142		.90830	18,5	.09170
.128         .14079         53,6         .23213         35,2         .90866         18,4         .09134           .129         .14133         53,6         .23248         35,2         .90885         18,4         .09115           1.130         0.14186         53,5         0.23283         35,2         9.90903         18,3         0.09097           .131         .14240         53,5         .23318         35,2         .90921         18,3         .09076           .132         .14293         53,5         .23353         35,3         .90940         18,3         .09060           .133         .14347         53,5         .23389         35,3         .90958         18,2         .09042           .134         .14400         53,5         .23424         35,3         .90976         18,2         .09042           1.135         0.14454         53,4         0.23459         35,3         .91012         18,1         .08988           .136         .14507         53,4         .23495         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23565         35,3         .91030         18,1         .0893 <tr< td=""><td>.127</td><td>.14025</td><td>53,6</td><td>.23177</td><td></td><td>.90848</td><td>18,4</td><td>.09152</td></tr<>	.127	.14025	53,6	.23177		.90848	18,4	.09152
.129         .14133         53,6         .23248         35,2         .90885         18,4         .09115           1.130         0.14186         53,5         0.23283         35,2         9.90903         18,3         0.09097           .131         .14240         53,5         .23318         35,2         .90921         18,3         .09076           .132         .14293         53,5         .23389         35,3         .90940         18,3         .09060           .133         .14347         53,5         .23389         35,3         .90958         18,2         .09044           .134         .14400         53,5         .23424         35,3         .90976         18,2         .09044           .135         0.14454         53,4         0.23459         35,3         .90994         18,1         .08085           .136         .14507         53,4         .23495         35,3         .91012         18,1         .08985           .137         .14560         53,4         .23530         35,3         .91030         18,1         .08976           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08931 <tr< td=""><td>.128</td><td>.14079</td><td>53,6</td><td>.23213</td><td></td><td>.90866</td><td>18,4</td><td>.09134</td></tr<>	.128	.14079	53,6	.23213		.90866	18,4	.09134
.131         .14240         53.5         .23318         35.2         .99921         18,3         .09070           .132         .14293         53.5         .23353         35.3         .90940         18,3         .09060           .133         .14347         53.5         .23389         35.3         .90958         18,2         .09042           .134         .14400         53.5         .23424         35.3         .90976         18,2         .09024           1.135         0.14454         53,4         0.23459         35.3         .91012         18,1         .08985           .136         .14507         53,4         .23495         35.3         .91012         18,1         .08985           .137         .14560         53,4         .23565         35.3         .91049         18,0         .08970           .138         .14614         53,4         .23565         35.3         .91049         18,0         .08931           .139         .14667         53,3         .23601         35.4         .91067         18,0         .08915           .140         0.14720         53,3         .23671         35.4         .91102         17,9         .08895	.129	.14133		.23248		.90885	18,4	.09115
.131         .14240         53,5         .23318         35,2         .90921         18,3         .09075           .132         .14293         53,5         .23353         35,3         .90940         18,3         .09060           .133         .14347         53,5         .23389         35,3         .90958         18,2         .09042           .134         .14400         53,5         .23424         35,3         .90976         18,2         .09024           1.135         0.14454         53,4         0.23459         35,3         .909094         18,1         0.09006           .136         .14507         53,4         .23495         35,3         .91012         18,1         .0898           .137         .14560         53,4         .23505         35,3         .91030         18,1         .08970           .138         .14614         53,4         .23505         35,3         .91049         18,0         .08971           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08933           1.140         0.14720         53,3         .23671         35,4         .91102         17,9         .08896	1.130	0.14186	53,5	0.23283	35,2	9.90903	18,3	0.09097
.132         .14293         53,5         .23353         35,3         .90940         18,3         .09060           .133         .14347         53,5         .23389         35,3         .90958         18,2         .09042           .134         .14400         53,5         .23424         35,3         .90976         18,2         .09024           1.135         0.14454         53,4         0.23459         35,3         9.90994         18,1         0.09066           .136         .14507         53,4         .23495         35,3         .91012         18,1         .08986           .137         .14560         53,4         .23530         35,3         .91030         18,1         .08970           .138         .14614         53,4         .23565         35,3         .91049         18,0         .08951           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08933           1.140         0.14720         53,3         .23636         35,4         .91020         17,9         .08862           .141         .14774         53,3         .23707         35,4         .91120         17,9         .08896 <tr< td=""><td>.131</td><td>.14240</td><td></td><td>.23318</td><td></td><td>.90921</td><td>18,3</td><td>.09079</td></tr<>	.131	.14240		.23318		.90921	18,3	.09079
.133         .14347         53,5         .23389         35,3         .90958         18,2         .09042           .134         .14400         53,5         .23424         35,3         .90976         18,2         .09024           1.135         0.14454         53,4         0.23459         35,3         9.90994         18,1         0.0906           .136         .14507         53,4         .23495         35,3         .91012         18,1         .0898           .137         .14560         53,4         .23530         35,3         .91030         18,1         .0897           .138         .14614         53,4         .23565         35,3         .91049         18,0         .08951           .139         .14667         53,3         .23601         35,4         .91067         18,0         .0893           1.140         0.14720         53,3         .23671         35,4         .91102         17,9         .0886           .141         .14774         53,3         .23707         35,4         .91120         17,9         .0886           .142         .14827         53,3         .23742         35,4         .91120         17,9         .0886	.132	.14293		·23353		.90940	18,3	.09060
I. 135         0. 14454         53,4         0.23459         35,3         9.90904         18,1         0.09006           .136         .14507         53,4         .23495         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23530         35,3         .91030         '18,1         .08970           .138         .14614         53,4         .23565         35,3         .91049         18,0         .08951           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08933           I.140         0.14720         53,3         0.23636         35,4         .91067         18,0         .08933           I.141         .14774         53,3         .23671         35,4         .91102         17,9         .08895           .142         .14827         53,3         .23707         35,4         .91120         17,9         .08866           .143         .14880         53,3         .23742         35,4         .91138         17,8         .08862           .144         .14934         53,2         .23813         35,4         .91156         17,8         .08864	.133	.14347				.90958	18,2	.09042
.136         .14507         53.4         .23495         35.3         .91012         18,1         .08988           .137         .14560         53.4         .23530         35.3         .91030         18,1         .08976           .138         .14614         53.4         .23565         35.3         .91049         18,0         .08951           .139         .14667         53.3         .23601         35.4         .91067         18,0         .08933           1.140         0.14720         53.3         0.23636         35.4         .9.91085         18,0         0.08918           .141         .14774         53.3         .23671         35.4         .91102         17,9         .08896           .142         .14827         53.3         .23707         35.4         .91120         17,9         .08886           .143         .14880         53.3         .23742         35.4         .91138         17,8         .08866           .144         .14934         53.2         .23778         35.4         .91156         17,8         .08842           1.145         0.14987         53.2         0.23813         35.4         .91192         17,7         .08866      <	.134	.14400	53,5	.23424	35,3	.90976	18,2	.09024
.136         .14507         53,4         .23495         35,3         .91012         18,1         .08988           .137         .14560         53,4         .23530         35,3         .91030         18,1         .08976           .138         .14614         53,4         .23565         35,3         .91049         18,0         .08951           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08933           1.140         0.14720         53,3         0.23636         35,4         9.91085         18,0         0.08918           .141         .14774         53,3         .23671         35,4         .91102         17,9         .08896           .142         .14827         53,3         .23707         35,4         .91120         17,9         .08886           .143         .14880         53,3         .23742         35,4         .91138         17,8         .08866           .144         .14934         53,2         .23778         35,4         .91156         17,8         .08842           1.145         0.14987         53,2         0.23813         35,4         .91192         17,7         .08866 <t< td=""><td>1.135</td><td>0.14454</td><td>53,4</td><td>0.23459</td><td>35,3</td><td>9.90994</td><td>18,1</td><td>0.09006</td></t<>	1.135	0.14454	53,4	0.23459	35,3	9.90994	18,1	0.09006
.137         .14560         53,4         .23530         35,3         .91030         ' 18,1         .08976           .138         .14614         53,4         .23565         35,3         .91049         18,0         .08951           .139         .14667         53,3         .23601         35,4         .91067         18,0         .08933           1.140         0.14720         53,3         0.23636         35,4         9.91085         18,0         0.08918           .141         .14774         53,3         .23671         35,4         .91102         17,9         .08896           .142         .14827         53,3         .23707         35,4         .91120         17,9         .08886           .143         .14880         53,3         .23742         35,4         .91138         17,8         .08886           .144         .14934         53,2         .23778         35,4         .91156         17,8         .08826           .145         0.14987         53,2         0.23813         35,4         .91174         17,8         0.08826           .146         .15040         53,2         .23848         35,5         .91209         17,7         .08791	. 136	.14507		.23495	35,3	.91012		
.139       .14667       53,3       .23601       35,4       .91067       18,0       .08933         1.140       0.14720       53,3       0.23636       35,4       9.91085       18,0       0.08918         .141       .14774       53,3       .23671       35,4       .91102       17,9       .08896         .142       .14827       53,3       .23707       35,4       .91120       17,9       .08886         .143       .14880       53,3       .23742       35,4       .91138       17,8       .08862         .144       .14934       53,2       .23778       35,4       .91156       17,8       .08844         1.145       0.14987       53,2       0.23813       35,4       9.91174       17,8       0.08826         .146       .15040       53,2       .23848       35,5       .91192       17,7       .0886         .147       .15093       53,2       .23884       35,5       .91209       17,7       .08773         .148       .15146       53,2       .23919       35,5       .91227       17,7       .08773         .149       .15200       53,1       .23955       35,5       .91262       17,6	.137	.14560	53,4	.23530	35,3	.91030		.08970
I.140       0.14720       53,3       0.23636       35,4       9.91085       18,0       0.08915         .141       .14774       53,3       .23671       35,4       .91102       17,9       .08896         .142       .14827       53,3       .23707       35,4       .91120       17,9       .08886         .143       .14880       53,3       .23742       35,4       .91138       17,8       .08862         .144       .14934       53,2       .23778       35,4       .91156       17,8       .08864         I.145       0.14987       53,2       0.23813       35,4       9.91174       17,8       0.08826         .146       .15040       53,2       .23848       35,5       .91192       17,7       .08806         .147       .15093       53,2       .23884       35,5       .91209       17,7       .08791         .148       .15146       53,2       .23919       35,5       .91227       17,7       .08773         .149       .15200       53,1       .23955       35,5       .91245       17,6       .08755         I.150       0.15253       53,1       0.23990       35,5       9.91262       17,6<	.138	.14614	53,4	.23565	35,3	.91049		
.141     .14774     53,3     .23671     35,4     .91102     17,9     .08806       .142     .14827     53,3     .23707     35,4     .91120     17,9     .08860       .143     .14880     53,3     .23742     35,4     .91138     17,8     .08862       .144     .14934     53,2     .23778     35,4     .91156     17,8     .08862       I.145     0.14987     53,2     0.23813     35,4     .91174     17,8     0.08826       .146     .15040     53,2     .23848     35,5     .91192     17,7     .08868       .147     .15093     53,2     .23884     35,5     .91209     17,7     .08773       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08755       I.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738	. 139	14667	53,3	.23601	35,4	.91067	18,0	.08933
.141     .14774     53,3     .23671     35,4     .91102     17,9     .08808       .142     .14827     53,3     .23707     35,4     .91120     17,9     .08886       .143     .14880     53,3     .23742     35,4     .91138     17,8     .08862       .144     .14934     53,2     .23742     35,4     .91156     17,8     .08862       1.145     0.14987     53,2     0.23813     35,4     .91174     17,8     0.08826       .146     .15040     53,2     .23848     35,5     .91192     17,7     .08808       .147     .15093     53,2     .23884     35,5     .91209     17,7     .08773       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08755       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738	1.140	0.14720	53,3	0.23636	35,4	9.91085		0.08915
.142       .14827       53,3       .23707       35,4       .91120       17,9       .08886         .143       .14880       53,3       .23742       35,4       .91138       17,8       .08862         .144       .14934       53,2       .23778       35,4       .91156       17,8       .08862         1.145       0.14987       53,2       0.23813       35,4       9.91174       17,8       0.08826         .146       .15040       53,2       .23848       35,5       .91192       17,7       .08808         .147       .15093       53,2       .23884       35,5       .91209       17,7       .08793         .148       .15146       53,2       .23919       35,5       .91227       17,7       .08773         .149       .15200       53,1       .23955       35,5       .91245       17,6       .08755         1.150       0.15253       53,1       0.23990       35,5       9.91262       17,6       0.08738				.23671			17,9	.08898
.143     .14880     53,3     .23742     35,4     .91138     17,8     .08862       .144     .14934     53,2     .23778     35,4     .91156     17,8     .08844       1.145     0.14987     53,2     0.23813     35,4     9.91174     17,8     0.08826       .146     .15040     53,2     .23848     35,5     .91192     17,7     .0886       .147     .15093     53,2     .23884     35,5     .91209     17,7     .08791       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08755       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738		.14827					17,9	.08880
.144     .14934     53,2     .23778     35,4     .91156     17,8     .08842       1.145     0.14987     53,2     0.23813     35,4     9.91174     17,8     0.08826       .146     .15040     53,2     .23848     35,5     .91192     17,7     .08806       .147     .15093     53,2     .23884     35,5     .91209     17,7     .08791       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08755       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738		.14880		.23742		.91138	17,8	.08862
.146     .15040     53,2     .23848     35,5     .91192     17,7     .08808       .147     .15093     53,2     .23884     35,5     .91209     17,7     .08791       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08753       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738				.23778				.ö88 <sub>44</sub>
.146     .15040     53,2     .23848     35.5     .91192     17,7     .08808       .147     .15093     53,2     .23884     35.5     .91209     17,7     .08791       .148     .15146     53,2     .23919     35.5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35.5     .91245     17,6     .08755       1.150     0.15253     53,1     0.23990     35.5     9.91262     17,6     0.08738	1.145	0.14987	53,2		35,4	9.91174	17,8	0.08826
.147     .15093     53,2     .23884     35.5     .91209     17,7     .08791       .148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08753       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738	. 146			.23848				.08808
.148     .15146     53,2     .23919     35,5     .91227     17,7     .08773       .149     .15200     53,1     .23955     35,5     .91245     17,6     .08753       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738	. 147	, 1						.08791
.149     .15200     53,1     .23955     35,5     .91245     17,6     .08755       1.150     0.15253     53,1     0.23990     35,5     9.91262     17,6     0.08738	. 148						17,7	.08773
		.15200						.08755
		l		ł	l			0
u  log tangdu   ∞ Fo′  log sec gdu   ∞ Fo′  log singdu   ∞ Fo′  log csc gdu	1.150	0.15253	53,I	0.23990	35,5	9.91202	17,0	0.08738

ſ	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
				0.23990	35,5	9.91262	176	0.08738
I	1.150	0.15253	53,1	.24026		.91280		.08720
	.151	.15306	53,1	.24020	35,5	- 1	17,6 17,5	.08703
1	.152	15359	53,1		35,5	.91297		.08685
	.153	.15412	53,0	.24097	35,6	.91315	17,5	
ı	.154	.15465	53,0	.24133	35,6	.91332	17,5	.08668
1	1.155	0.15518	53,0	0.24168	35,6	9.91350	17,4	0.08650
I	.156	.15571	53,0	.24204	35,6	.91367	17,4	.08633
1	157	.15624	53,0	.24239	35,6	.91385	17,3	.08615
1	.158	.15677	52,9	.24275	35,6	.91402	17,3	.08598
1				.24311	36,6	.91419	17,3	.08581
ı	.159	.15730	52,9	.24,311	30,0	.91419	1/13	.00501
	1.160	0.15783	52,9	0.24346	35,7	9.91436	17,2	0.08564
1	.161	.15836	52,9	.24382	35,7	.91454	17,2	.08546
1	. 162	.15888	52,9	.24418	35,7	.91471	17,2	.08529
1	. 163	15941	52,8	24453	35.7	.91488	17,1	.08512
ı	.164	15994	52,8	.24489	35.7	.91505	17,1	.08495
ı		1-3334		ne e e combretado a la como de				
ı	1.165	0.16047	52,8	0.24525	35,7	9.91522	17,1	0.08478
1	.166	.16100	52,8	.24560	35,7	.91539	17,0	.08461
1	. 167	.16152	52,7	.24596	35,8	.91556	17,0	.08444
1	.168	. 16205	52,7	.24632	35,8	.91573	17,0	.08427
١	. 169	. 16258	52,7	.24668	35,8	.91590	16,9	.08410
1		6	w.a.m.		a = 0	2 27627	76.0	0000
ı	1.170	0.16311	52,7	0.24703	35,8	9.91607	16,9	0.08393
١	.171	. 16363	52,7	•24739	35,8	.91624	16,9	.08376
1	.172	.16416	52,6	.24775	35,8	.91641	16,8	.08359
1	.173	. 16469	52,6	,24811	35,8	.91658	16,8	.08342
ı	.174	.16521	52,6	.24847	35,9	.91674	16,8	.08326
				00-	** 249			0.0
1	1.175	0.16574	52,6	0.24883	35,9	9.91691	16,7	0.08309
1	.176	.16626	52,6	.24919	35,9	.91708	16,7	.08292
. 1	.177	. 16679	52,5	.24954	35,9	.91724	16,7	.08276
ı	.178	. 16731	52,5	.24990	35,9	.91741	16,6	.08259
. 1	. 179	. 16784	52,5	.25026	35,9	.91758	16,6	.08242
1		20.6	5.77	- <b> </b>				
1	1.180	0.16836	52,5	0.25062	35,9	9.91774	16,6	0.08226
1	181	.16889	52,5	.25098	35,9	.91791	16,5	.08209
ı	. 182	16941	52,4	.25134	36,0	.91807	16,5	.08193
١	.183	.16994	52,4	.25170	36,0	.91824	16,4	.08176
1	.184	. 17046	52,4	.25206	36,0	.91840	16,4	.08160
١	1.185	0.17099	E2 /	0.25242	36,0	9.91857	16,4	0.08143
1	.186	17151	52,4	25278	36,0	.91873	16,3	.08127
1	.187		52,4		36,0	.91889	16,3	.08111
ı	.188	.17203	52,3	.25314			10,3	.08094
1		17256	52,3	.25350	36,0	91906	16,3	
	.189	. 17308	52,3	.25386	36,1	.91922	16,2	.08078
1	1.190	0.17360	52,3	0.25422	36,1	9.91938	16,2	0.08062
1	.191	17413	52,3	.25458	36,1	.91954	16,2	.08046
-	.192	17465	52,2	25494	36,1	.91970	16,2	.08030
1	.193	.17517	52,2	25530	36,1	.01087	16,1	.08013
-	.193	17569	52,2	.25567	36,1	.92003	16,1	.07997
1	1194	11,309	2,20		30,1	.92003		.0/99/
ı	1.195	0.17621	52,2	0.25603	36,1	9.92019	16,1	0.07981
	.196	. 17674	52,2	.25639	36,2	.92035	16,0	.07965
	.197	.17726	52,2	.25675	36,2	.92051	16,0	.07949
1	.198	.17778	52,1	.25711	36,2	.92067	16,0	.07933
1	.199	.17830	52,1	25747	36,2	.92083	15,0	.07917
	1,200	0.17882	52,1	0.25784	36,2	9.92099	15,9	0.07901
	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
		London Stranger Strain					i Orași e de la Sala Sala Sala Sala Sala Sala Sala	

Logarithms of Hyperbolic Functions.

	<u> </u>	Section 1	and the second s				
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.200	0.17882	52,1	0.25784	36,2	9.92099	15,9	0.07901
.201	.17934	52,1	.25820	36,2	.92114	15,9	.07886
.202	.17985	52,1	.25856	36,2	.92130	15,8	.07870
.203	. 18038	52,0	.25892	36,2	.92146	15,8	.07854
.204	18090	52,0	.25929	36,3	.92162	15,8	.07838
1.205	0.18142	52,0	0.25965	36,3	9.92178	15,7	0.07822
.206	.18194	52,0	.26001	36,3	.92193	15,7	.07807
.207	. 18246	52,0	.26037	36,3	.92209	15,7	.07791
.208	18298	51,9	.26074	36,3	.92225	15,6	.07775
.209	.18350	51,9	.26110	36,3	.92240	15,6	.07760
1.210	0.18402	51,9	0.26146	36,3	9.92256	15,6	0.07744
.211	.18454	51,9	.26183	36,3	.92271	15,5	.07729
.212	.18506	51,9	.26219	36,4	.92287	15,5	.07713
.213	.18558	51,0	.26255	36,4	.92302	15,5	.07698
.214	.18610	51,8	.26292	36,4	.92318	15,4	.07682
1.215	0.18662	51,8	0.26328	36,4	9.92333	15,4	0.07667
.216	.18713	51,8	.26365	36,4	.92349	15,4	.07651
.217	.18765	51,8	.26401	36,4	.92364	15,4	.07636 .07621
.218	. 18817 . 18869	51,8	.26437 .26474	36,4	.92379	15,3	.07605
.219	,10009	51,7		36,5	.92395	15,3	
1.220	0.18920	51,7	0.26510	36,5	9.92410	15,3	0.07590
.221	. 18972	51,7	.26547	36,5	.92425	15,2	.07575
.222	.19024	51,7	. <i>2</i> 5583	36,5	.92440	15,2	.07560
.223	19075	51,7	.26620	36,5	.92456	15,2	.07544
.224	.19127	51,7	.26656	36,5	.92471	15,1	.07529
1.225	0.19179	51,6	0. <i>2</i> 6693	36,5	9.92486	15,1	0.07514
.226	. 19230	51,6	.26729	36,5	.92501	15,1	07499
.227	. 19282	51,6	.26766	36,6	.92516	15,0	.07484
.228	•19334	51,6	.26802	36,6	.92531	15,0	.07469
.229	.19385	51,6	.26839	36,6	.92546	15,0	.07454
1.230	0.19437	51,5	0.26876	36,6	9.92561	15,0	0.07439
.231	. 19488	51,5	.26912	36,6	.92576	14,9	.07424
.232	. 19540	51,5	.26949	36,6	.92591	14,9	.07409
.233	. 19591	51,5	.26985	36,6	.92606	14,9	.07394
.234	.19643	51,5	.27022	36,6	.92621	14,8	.07379
1.235	<b>0.</b> 19694	51,5	0.27059	36,7	9.92635	14,8	0.07365
.236	.19746	51,4	.27095	36,7	.92650	14,8	.07350
.237	. 19797	51,4	.27132	36,7	.92665	14,7	.07335
.238	19848	51,4	.27169	36,7	.92680	14,7	.07320
.239	.19900	51,4	.27205	36,7	.92694	14,7	.07306
1.240	0.19951	51,4	0.27242	36,7	9.92709	14,7	0.07291
.241	20003	51,4	.27279	36,7	.92724	14,6	.07276
.242	.20054	51,3	.27316	36,7	.92738	14,6	.07262
.243	.20105	51,3	.27352	36,8	.92753	14,6	.07247
.244	.20157	51,3	.27389	36,8	.92767	14,5	.07233
1.245	0.20208	51,3	0.27426	36,8	9.92782	14,5	0.07218
.246	.20259	. 51,3	.27463	36,8	.92796	14,5	.07204
.247	.20310	51,2	•27499	36,8	.92811	14,4	.07189
.248	.20362	51,2	.27536	36,8	.92825	14,4	.07175
249	.20413	51,2	,27573	36,8	.92840	14,4	.07160
1.250	0.20464	51,2	0.27610	36,8	9.92854	14,4	0.07146
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	∞ F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

Ī	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
	1.250	0.20464	51,2	0.27610	36,8	9.92854	14,4	0.07146
	.251	.20515	51,2	.27647	36,9	.92868	14,3	.07132
2	.252	.20566	51,2	.27684	36,9	.92883	14,3	.07117
		.20518	51,1	.27721	36,9	.92897	14,3	.07103
1	.253	.20669	51,1	.27757	36,9	.92911	14,2	.07089
	.254	.20009	21,1	•2//5/	100	.92911		
	1.255	0.20720	51,1	0.27794	36,9 36,9	9.92926	14,2 14,2	0.07074 .07060
1	.256	.20771	51,1		30,9	.92940		.07046
1	.257	.20822	51,1	.27868	36,9	.92954	14,2	
	.258	.20873	51,1	.27905	35,9	.92968	14,1	.07032
	.259	.20924	51,0	.27942	36,9	.92982	14,1	.07018
	1.260	0.20975	51,0	0.27979	37,0	9.92996	14,1	0.07004
1	.261	.21026	51,0	.28016	37,0	.93010	14,0	.06990
ľ	.262	.21077	51,0	.28053	37,0	.93024	14,0	.06976
1	.263	.21128	51,0	28090	37,0	.93038	14,0	.06962
	.264	.21179	51,0	.28127	37,0	.93052	14,0	<b>.0</b> 6948
	1.265	0.21230	50,9	0.28164	37,0	9.93066	13,9	0.06934
1	.266	.21281	50,9	.28201	37,0	.93080	13,9	.06920
	.267	.21332	50,9	.28238	37,0	.93094	13,9	.06906
ŀ	.268	.21383	50,9	.28275	37,1	.93108	13,8	.06892
ĺ	.269	.21434	50,9	.28312	37,1	.93122	13,8	.06878
	1.270	0.21485	50,9	0.28349	37,1	9.93135	13,8	0.06865
	.271	.21536	50,9	.28386	37,1	.93149	13,8	.06851
	.272	.21586	50,8	.28423	37,I	.93163	13,7	.06837
	.273	.21537	50,8	.28460	37,1	.93177	13,7	.06823
	.274	.21688	50,8	.28498	37,1	.93177	13,7	.06810
	1.275	0.21739	50,8	0.28535	37,1	9.93204	13,6	0.06796
ı	.276	.21790	50,8	.28572	37,2	.93218	13,6	.06782
	.277	.21840	50,8	.28609	37,2	.93231	13,6	.06769
	.278	.21891	50,7	.28646		.93245	13,6	.06755
	.279	.21942	50,7	28683	37,2 37,2	.93258	13,5	.06742
		***	30,7	9 4 5 9 5	3/,2	.93230	13,3	10.0
l	1.280	0.21993	50,7	0.28721	37,2	9.93272	13,5	0.05728
l	.281	.22043	50,7	.28758	37,2	.93285	13,5	.06715
	.282	.22004	50,7	.28795	37,2	.93299	13,5	.06701
l	.283	.22145	50,7	.28832	37,2	.93312	13,4	.06688
	.284	.22195	50,6	.28869	37,2	.93326	13,4	.06674
	1.285	0.22246	50,6	0.28907	37,3	9.93339	13,4	0.06661
١	.286	.22296	50,6	.28944	37,3	93353	13,3	.06647
l	.287	.22347	50,6	.28981	37,3	.93366	13,3	.06634
ı	.288	.22398	50,6	.29018	37,3	-93379	13,3	.06621
۱	.289	.22448	50,6	.29056	37,3	.93392	13,3	.06608
١	1.290	0.22499	50,6	0.29093	37,3	9.93406	13,2	0.06594
l	.291	.22549	50,5	.29130	37,3	.93419	13,2	.06581
١	.292	.22600	50,5	.29168	37,3	93432	13,2	.06568
ļ		.22650	50,5	29205	William Andrewson	.93445	13,2	.06555
	.293	.22701	50,5	.29242	37,3 37,4	.93458	13,1	.06542
		0.22751	50,5	0.29280	1	9.93472	13,1	0.06528
I	1.295	.22802			37,4		13,1	.06515
١	.296		50,5	.29317	37,4	.93485		.06502
١	.297	.22852	50,4	.29355	37,4	.93498	13,1	.06489
-	.298	.22903	50,4 50,4	.29392	37,4	.93511	13,0	.06476
	1						1	0.06463
	1.300	0.23004	50,4	0.29467	37,4	9.93537	13,0	ļ
ı	u	log tan gd u	ω, F <sub>0</sub> /	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

	4.444. 1.444.		Logarit	hms of Hy	perbolic	Functions	an Lago sa	wantan in an
I	и	log sinh u	ω F <sub>0</sub> '	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
	1.300	0.23004	50,4	0.29467	37,4	9.93537	13,0	0.06463
	.301	.23054	50,4	.29504	37,4	.93550	12,9	.06450
H	.302	.23104	50,4	.29542	37,4	.93563	12,9	.06437
1	.303	.23155	50,4	29579	37,5	.93576	12,9	.06424
	.304	.23205	50,3	.29617	37,5	.93588	12,9	.06412
	1.305	0.23255	50,3	0.29654	37,5	9.93601	12,8	0.06399
	.306	.23306	50,3	.29692	37,5	.93614	12,8	.06386
11	.307	.23356	50,3	.29729	37,5	.93627	12,8	.06373
	.308	.23406	50,3	.29767	37,5	.93640	12,8	.06360
	.309	.23457	50,3	.29804	37,5	93652	12,7	.06348
	1.310	0.23507	50,2	0.29842	37,5	9.93665	12,7	0.06335
	.311	23557	50,2	.29879	37,5	.93678	12,7	.06322
	.312	.23607	50,2	.29917	37,6	.93691	12,7	.06309
	.313	.23657	50,2	.29954	37,6	.93703	12,6	.06297
	.314	.23708	50,2	.29992	37,6	.93716	12,6	.06284
	1.315	0.23758	50,2	0.30029	37,6	9.93728	12,6	0.06272
	. 316	.23808	50,2	.30067	37,6	.93741	12,6	.06259
	.317	.23858	50,1	.30105	37,6	•93754	12,5	.06246
	.318	.23908	50,1	.30142	37,6	.93766	12,5	.06234
	.319	.23958	50,1	.30180	37,6	93779	12,5	.06221
	1.320	0.24009	50,1	0.30217	37,6	9.93791	12,5	0.06209
į.	.321	.24059	50,1	.30255	37,7	.93804	12,4	.06196
1)	.322	.24109	50,1	.30293	37,7	.93816	12,4	<b>.0</b> 6184
	.323	.24159	50,1	.30330	37,7	.93828	12,4	.06172
	324	.24209	50,0	.30368	37,7	.93841	12,4	.06159
	1.325	0.24259	50,0	0.30406	37,7	9.93853	12,3	0.06147
11	.326	.24309	50,0	.30444	37,7	.93865	12,3	.06135
1	.327	.24359	50,0	.30481	37,7	.93878	12,3	.06122
II.	.328	.24409	50,0	.30519	37,7	93890	12,3	.06110
	.329	.24459	50,0	.30557	37,7	.93902	12,2	.06098
	1.330	0.24509	50,0	0.30594	37,8	9.93914	12,2	0.06086
1	.331	.24559	49,9	.30632	37,8	93927	12,2	.06073
П	.332	. 24609	49,9	30670	37,8	.93939	12,2	. <b>0</b> 6061
	-333	.24659	49,9	.30708	37,8	.93951	12,1	.06049
	•334	.24709	49,9	30746	37,8	.93963	12,1	.06037
	1.335	0.24759	49,9	0.30783	37,8	9.93975	12,1	0.06025
·2.	.336	.24808	49,9	.30821	37,8	.93987	12,1	.06013
	•337	.24858	49,9	.30859	37,8	•93999	12,0	.06001
	.338	.24908	49,9	.30897	37,8	.94011	12,0	.05989
	•339	.24958	49,8	.30935	37,8	.04023	12,0	.05977
	1.340	0.25008	49,8	0.30972	37,9	9.94035	12,0	0.05965
	.341	.25058	49,8	.31010	37,9	.94047	11,9	.05953
11	.342	.25107	49,8	.31048	37,9	.94059	11,9	.05941
	•343	.25157	49,8	.31086	37,9	.94071	11,9	.05929
	•344	.25207	49,8	.31124	37,9	.94083	11,9	.05917
	1.345	0.25257	49,8	0.31162	37,9	9.94095	11,8	0.05905
11	.346	.25306	49.7	.31200	37,9	.94107	11;8	.05893
	•347	.25356	49,7	.31238	37,9	.94119	11,8	.05881
H	. 348	.25406	49,7	.31276	37,9	.94130	11,8	.05870
	•349	.25456	49,7	.31314	37,9	.94142	11,8	.05858
	1.350	0.25505	49,7	0.31352	38,0	9.94154	11,7	0.05846
	u .	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> '	log sin gd u	ω Fo'	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F₀′	log coth u
1.350 .351 .352 .353 .354	0.25505 .25555 .25605 .25654 .25704	49,7 49,7 49,7 49,6 49,6	0.31352 .31390 .31428 .31465 .31503	38,0 38,0 38,0 38,0 38,0	9.94154 .94166 .94177 .94189	11,7 11,7 11,7 11,7 11,6	0.05846 .05834 .05823 .05811 .05799
1.355 .356 .357 .358 .359	0.25754 .25803 .25853 .25902 .25952	49,6 49,6 49,6 49,6 49,6	0.31541 .31580 .31618 .31656 .31694	38,0 38,0 38,0 38,0 38,1	9.94212 .94224 .94235 .94247 .94258	11,6 11,6 11,6 11,5 11,5	0.05788 .05776 .05765 .05753 .05742
1.360 .361 .362 .363 .364	0.26002 .26051 .26101 .26150 .26200	49,6 49,5 49,5 49,5 49,5	0.31732 .31770 .31808 .31846 .31884	38,1 38,1 38,1 38,1 38,1	9.94270 .94281 .94293 .94304 .94316	11,5 11,5 11,4 11,4 11,4	0.05730 .05719 .05707 .05696 .05684
1.365 .366 .367 .368 .369	0.26249 .26299 .26348 .26398 .26447	49,5 49,5 49,5 49,5 49,4	0.31922 .31960 .31998 .32036 .32075	38,1 38,1 38,1 38,1 38,2	9.94327 .94338 .94350 .94361 .94372	11,4 11,3 11,3 11,3	0.05673 .05662 .05650 .05639 .05628
1.370 .371 .372 .373 .374	0.26496 .26546 .26595 .26645 .26694	49,4 49,4 49,4 49,4 49,4	0.32113 .32151 .32189 .32227 .32266	38,2 38,2 38,2 38,2 38,2	9.94384 •94395 •94405 •94417 •94429	II,3 II,2 II,2 II,2 II,2	0.05616 .05605 .05594 .05583 .05571
1 · 375 · 376 · 377 · 378 · 379	0.26743 .26793 .26842 .26891 .26941	49,4 49,3 49,3 49,3 49,3	0.32304 .32342 .32380 .32418 .32457	38,2 38,2 38,2 38,2 38,2	9.94440 .94451 .94462 .94473 .94484	II,2 II,1 II,1 II,1 II,1	0.05560 .05549 .05538 .05527 .05516
1.380 .381 .382 .383 .384	0.26990 .27039 .27089 .27138 .27187	49,3 49,3 49,3 49,3 49,2	0.32495 .32533 .32571 .32610 .32648	38,3 38,3 38,3 38,3 38,3	9.94495 .94506 .94517 .94528 .94539	11,0 11,0 11,0 11,0	0.05505 .05494 .05483 .05472 .05461
1.385 .385 .387 .388 .389	0.27236 .27286 .27335 .27384 .27433	49,2 49,2 49,2 49,2 49,2	0.32686 .32725 .32763 .32801 .32840	38,3 38,3 38,3 38,3 38,3	9.94550 .94561 .94572 .94583 .94594	10,9 10,9 10,9 10,9	0.05450 .05439 .05428 .05417 .05406
1.390 .391 .392 .393 .394	0.27482 .27532 .27581 .27630 .27679	49,2 49,2 49,2 49,1 49,1	0.32878 .32916 .32955 .32993 .33031	38,4 38,4 38,4 38,4 38,4	9.94604 .94615 .94626 .94637 .94648	10,8 10,8 10,8 10,8	0.05396 .05385 .05374 .05363 .05352
1.395 .396 .397 .398 .399	0.27728 .27777 .27826 .27875 .27925	49,1 49,1 49,1 49,1 49,1	0.33070 .33108 .33147 .33185 .33224	38,4 38,4 38,4 38,4 38,4	9.94658 .94669 .94680 .94690 .94701	10,7 10,7 10,7 10,6 10,6	0.05342 .05331 .05320 .05310 .05299
1.400	0.27974	49,1	0.33262	38,5	9.94712	10,6	0.05288
u	log tan gd u	<b>∞</b> F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log ceth u
1.400	0.27974	49,1	0.33262	38,5	9.94712	10,6	0.05288
.401	.28023	49,0	.33300	38,5	.94722	10,6	.05278
.402	.28072	49,0	•33339	38,5	•94733	10,6	.05267
.403	.28121	49,0	•33377	38,5	94743	10,5	05257
.404	.28170	49,0	.33416	38,5	•94754	10,5	.05246
1.405	0.28219	49,0	0.33454	38,5	9.94764	10,5	0.05236
.406	. 28268	49,0	•33493	38,5	•94775	10,5	.05225
.407	.28317	49,0	·3353I	38,5	94785	10,5	.05215
.408	.28366	49,0	-33570	38,5	.94796	10,4	.05204
.409	.28415	48,9	.33608	38,5	.94806	10,4	.05194
1.410	0.28464	48,9	0.33647	38,5	9.94817	10,4	0.05183
.411	.28512	48,9	.33686	38,6	.94827	10,4	.05173
.412	.28561	48,9	33724	38,6	.94837	10,3	.05163
•413	.28610	48,9	·33 <u>7</u> 63	38,6	.94848	10,3	.05152
.414	.28659	48,9	.33801	38,6	.94858	10,3	.05142
1.415	0.28708	48,9	0.33840	38,6	9.94868	10,3	0.05132
.416	.28757	48,9	.33878	38,6	.94879	10,3	.05121
.417	.28806	48,9	•33917	38,6	.94889	10,2	.05111
.418	.28855	48,8	33956	38,6	.94899	10,2	.05101
.419	.28903	48,8	•33994	38,6	•94909	10,2	.05091
1.420	0.28952	48,8	0.34033	38,6	9.94919	10,2	0.05081
.421	.29001	48,8	34071	<b>38,</b> 6	.94930	10,2	.05070
.422	.29050	48,8	.34110	38,7	.94940	10,1	.05060
.423	.29099	48,8	•34149	38,7	•94950	10,1	.05050
.424	<b>.</b> 29147	48,8	.34187	38,7	.94960	10,1	.05040
1.425	0.29196	48,8	0.34226	38,7	9.94970	10,1	0.05030
.426	.29245	48,8	.34265	38,7	.94980	10,1	.05020
.427	.29294	48,7	34304	38,7	.94990	10,0	.05010
.428	.29342	48,7	•34342	38,7	95000	10,0	.05000
.429	.29391	48,7	.34381	38,7	.95010	10,0	.04990
1.430	0.29440	48,7	0.34420	38,7	9.95020	10,0	0.04980
.431	.29489	48,7	.34458	38,7	.95030	10,0	.04970
.432	•29537	48,7	•34497	38,7	.95040	9,9	.04960
433	.29586	48,7	•34536	38,8	.95050	9,9	.04950
•434	.29635	48,7	•34575	38,8	.95060	9,9	.04940
1.435	0.29683	48,7	0.34613	38,8	9.95070	9,9	0.04930
.436	.29732	48,6	.34652	38,8	.95080	9,9	.04920
437	.29781	48,6	.34691	38,8	.95090	9,8	.04910
.438	.29829	48,6	•34730	38,8	.95099	9,8	.04901
•439	.29878	48,6	.34769	38,8	.95109	9,8	.04891
1.440	0.29926	48,6	0.34807	38,8	9.95119	9,8	0.04881
·44I	.29975	48,6	.34846	38,8	.95129	9,8	.04871
.442	.30024	48,6	.34885	38,8	95139	9,7	.04861
•443	.30072	48,6	.34924	38,8	.95148	9,7	.04852
•444	.30121	48,6	•34963	38,8	.95158	9,7	.04842
1.445	0.30169	48,5	0.35002	38,9	9.95168	9,7	0.04832
.446	.30218	48,5	.35040	38,9	•95177	9,7	.04823
•447	.30266	48,5	.35079	38,9	.95187	9,6	.04813
.448	.30315	48,5	35118	38,9	.95197	9,6	.04803
•449	.30363	48,5	-35157	38,9	.95206	9,6	.04794
1.450	0.30412	48,5	0.35196	38,9	9.95216	9,6	0.04784
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

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u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.450	0.30412	48,5	0.35196	38,9	9.95216	9,6	0.04784
451	.30460	48,5	35235	38,9	.95225	9,6	.04775
.452	.30509	48,5	•35274	38,9	.95235	9,5	.04765
453	.30557	48,5	•353 <sup>1</sup> 3	38,9	95245	9,5	04755
•454	.30606	48,4	•35352	38,9	.95254	9,5	<b>.0</b> 4746
1.455	0.30654	48,4	0.35391	38,9	9.95264	9,5	0.04736
.456	.30703	48,4	.35429	39,0	.95273	9,5	.04727
457	.30751	48,4	.35468	39,0	.95283	9,5	.04717
.458	.30799	48,4	.35507	39,0	.95292	9,4	.04708
•459	.30848	48,4	.35546	39,0	.95301	9,4	.04699
1.460	0.30896	48,4	0.35585	39,0	9.95311	9,4	0.04689
.461	.30945	48,4	.35624	39,0	.95320	9,4	.04680
.462	.30993	48,4	.35663	39,0	.95330	9,4	.04670
.463	.31041	48,3	.35702	39,0	•95339	9,3	.04661
.464	.31090	48,3	•35741	39,0	.95348	9,3	.04652
1.465	0.31138	48,3	0.35780	39,0	9.95358	9,3	0.04642
.466	.31186	48,3	.35819	39,0	.95367	9,3	.04633
.467	.31235	48,3	.35858	39,0	.95376	9,3	.04624
.468	.31283	48,3	·35897	39,1	.95385	9,2	.04615
.469	.31331	48,3	·35937	39,1	95395	9,2	.04605
1.470	0.31379	48,3	0.35976	39,1	9.95404	9,2	0.04596
.471	.31428	48,3	.36015	39,1	.95413	9,2	.04587
.472	.31476	48,3	.36054	39,1	95422	9,2	.04578
•473	.31524	48,2	36093	39,1	.95431	9,2	.04569
•474	.31572	48,2	.36132	39,1	95441	9,1	.04559
1.475	0.31621	48,2	0.36171	39,1	9.95450	9,1	0.04550
.476	.31669	48,2	.36210	39,1	95459	9,1	.04541
.477	.31717	48,2	. 36249	39,1	.95468	9,1	.04532
.478	.31765	48,2	.36288	39,1	-95477	9,1	.04523
479	.31814	48,2	.36328	39,1	.95486	9,0	.04514
1.480	0.31862	48,2	0.36367	39,2	9.95495	9,0	0.04505
.481	.31910	48,2	.36406	39,2	.95504	9,0	.04496
.482	.31958	48,2	.36445	39,2	.95513	9,0	.04487
.483	.32006	48,1	36484	39,2	.95522	9,0	.04478
.484	. 32054	48,1	.36523	39,2	•95531	9,0	.04469
1.485	0.32102	48,1	0.36563	39,2	.95540	8,9	.04460
.486	.32151	48,1	.36602	39,2	95549	8,9	.04451
.487	.32199	48,1	.36641	39,2	.95558	8,9	.04442
.488	.32247	48,1	.36680	39,2	95567	8,9	•04433
.489	.32295	48,1	.36719	39,2	95576	8,9	.04424
1.490	0.32343	48,1	0.36759	39,2	9.95584	8,8	0.04416
.491	.32391	48,1	.36798	39,2	95593	8,8	.04407
.492	.32439	48,1	.36837	39,2	.95602	8,8	.04398
493	.32487	48,0	36876	39,3	.95611	8,8	.04389
-494	32535	48,0	.36916	39,3	.95620	8,8	.04380
1.495	0.32583	48,0	0.36955	39,3	9.95628	8,8	0.04372
.496	.32631	46,0	.36994	39,3	.95637	8,7	.04363
497	.32679	48,0 48,0	37033	39,3	.95646	8,7	.04354
.498 .499	.32727 .32775	48,0	37073	39,3 39,3	.95655 .95663	8,7 8,7	.04345
1.500	0.32823	48,0	0.37151	39.3	9.95672	8,7	0.04328
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> '	log csc gd u
	y tott yu u						- J

Logarithms of Hyperbolic Functions.

1.500 .501 .502 .503 .504 1.505 .506 .507 .508 .509 1.510 .511 .512 .513 .514 1.515	0.32823 .32871 .32919 .32967 .33015 0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33398 .33446 .33494	48,0 48,0 48,0 48,0 47,9 47,9 47,9 47,9 47,9 47,9 47,9 47,9	0.37151 .37191 .37230 .37269 .37309 0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39.3 39.3 39.3 39.3 39.3 39.4 39.4 39.4	95681 95689 95698 95707 995715 95724 95732	8,7 8,7 8,6 8,6 8,6 8,6 8,5 8,5 8,5	.0430 .0429 0.0428
.501 .502 .503 .504 .505 .506 .507 .508 .509 .511 .512 .513 .514	.32871 .32919 .32967 .33015 0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33350 .33350 .33446 .33494	48,0 48,0 48,0 47,9 47,9 47,9 47,9 47,9 47,9 47,9 47,9	.37191 .37230 .37269 .37399 0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,3 39,3 39,3 39,3 39,4 39,4 39,4 39,4	.95681 .95689 .95698 .95707 9.95715 .95724 .95732 .95741 .95749 9.95758 .95766	8,7 8,6 8,6 8,6 8,5 8,5 8,5 8,5 8,5	.0431 .0431 .0430 .0429 .0427 .0426 .0425 .0425
.502 .503 .504 1.505 .506 .507 .508 .509 1.510 .511 .512 .513 .514	.32919 .32967 .33015 0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33350 .33446 .33494	48,0 48,0 47,9 47,9 47,9 47,9 47,9 47,9 47,9 47,9	.37191 .37230 .37269 .37399 0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,3 39,3 39,3 39,3 39,4 39,4 39,4 39,4	.95681 .95689 .95698 .95707 9.95715 .95724 .95732 .95741 .95749 9.95758 .95766	8,7 8,6 8,6 8,6 8,5 8,5 8,5 8,5 8,5	.0431 .0431 .0430 .0429 .0427 .0426 .0425 .0425
.503 .504 1.505 .506 .507 .508 .509 1.510 .511 .512 .513 .514	.32967 .33015 0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33398 .33446 .33494	48,0 47,9 47,9 47,9 47,9 47,9 47,9 47,9 47,9	.37269 .37309 0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,3 39,3 39,3 39,4 39,4 39,4 39,4 39,4	9.95689 .95698 .95707 9.95715 .95724 .95732 .95741 .95749 9.95758 .95766	8,6 8,6 8,6 8,5 8,5 8,5 8,5 8,5	.0431 .0430 .0429 0.0428 .0427 .0426 .0425 .0425
.504 1.505 .506 .507 .508 .509 1.510 .511 .512 .513 .514 1.515	.33015 0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33398 .33446 .33494	47.9 47.9 47.9 47.9 47.9 47.9 47.9 47.9	.37399 0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37663 .37702	39,3 39,3 39,4 39,4 39,4 39,4 39,4 39,4	9.95698 .95707 9.95715 .95724 .95732 .95741 .95749 9.95758 .95766	8,6 8,6 8,6 8,5 8,5 8,5 8,5	.0430 .0429 0.0428 .0427 .0426 .0425 .0425
1.505 .506 .507 .508 .509 1.510 .511 .512 .513 .514 1.515	0.33063 .33111 .33159 .33207 .33255 0.33303 .33350 .33398 .33446 .33494	47,9 47,9 47,9 47,9 47,9 47,9 47,9 47,9	0.37348 .37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,3 39,4 39,4 39,4 39,4 39,4 39,4 39,4	9.95715 .9574 .95732 .95741 .95749 9.95758 .95766	8,6 8,6 8,5 8,5 8,5 8,5 8,5	.0429 0.0428 .0427 .0425 .0425 .0425 0.0424
.506 .507 .508 .509 1.510 .511 .512 .513 .514 1.515	.33111 .33159 .33207 .33255 .33303 .33350 .33350 .33346 .33494 .33542 .33590 .33538	47.9 47.9 47.9 47.9 47.9 47.9 47.9 47.9	.37387 .37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,4 39,4 39,4 39,4 39,4 39,4 39,4	.95724 .95732 .95741 .95749 9.95758 .95766	8,6 8,5 8,5 8,5 8,5 8,5 8,5	.04276 .0426 .0425 .0425 .0424 .04232
.507 .508 .509 1.510 .511 .512 .513 .514 1.515	.33159 .33207 .33255 .33303 .33350 .33398 .33446 .33494 .33542 .33590 .33638	47.9 47.9 47.9 47.9 47.9 47.9 47.9 47.8 47.8	.37427 .37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,4 39,4 39,4 39,4 39,4 39,4	.95732 .95741 .95749 9.95758 .95766	8,6 8,5 8,5 8,5 8,5 8,5 8,5	.04276 .0426 .0425 .0425 .0424 .04232
.508 .509 1.510 .511 .512 .513 .514 1.515	.33207 .33255 .33303 .33350 .33398 .33446 .33494 .33542 .33590 .33638	47.9 47.9 47.9 47.9 47.9 47.9 47,8 47,8	.37466 .37505 0.37545 .37584 .37624 .37663 .37702	39,4 39,4 39,4 39,4 39,4	.95741 .95749 9.95758 .95766 .95775	8,5 8,5 8,5 8,5 8,5	.04259 .0425 0.04242 .04234
.509 1.510 .511 .512 .513 .514 1.515	.33255 .33303 .33350 .33398 .33446 .33494 .33542 .33590 .33638	47,9 47,9 47,9 47,9 47,9 47,8 47,8	•37505 •37545 •37584 •37624 •37663 •37702	39,4 39,4 39,4 39,4 39,4	.95749 9.95758 .95766 .95775	8,5 8,5 8,5 8,5	.0425 0.04242 .04232
1.510 .511 .512 .513 .514 1.515	9.33303 .33350 .33398 .33446 .33494 9.33542 .33590 .33538	47.9 47.9 47.9 47.9 47.8 47.8	0.37545 .37584 .37624 .37663 .37702	39,4 39,4 39,4 39,4	9.95758 .95766 .95775	8,5 8,5 8,5	0.04242
.511 .512 .513 .514 1.515 0	.33350 .33398 .33446 .33494 .33542 .33590 .33638	47,9 47,9 47,8 47,8	•37584 •37624 •37663 •37702	39,4 39,4 39,4	.95766 .95775	8,5 8,5	.04234
.512 .513 .514 1.515 .516	.33398 .33446 .33494 .33542 .33590 .33638	47,9 47,9 47,8 47,8	.37624 .37663 .37702	39,4 39,4	.95775	8,5	
.513 .514 1.515 0	.33446 .33494 .33542 .33590 .33638	47,9 47,8 47,8	.37663 .37702	39,4		8,5	.0/22
.514 1.515 o	•33494 •33542 •33590 •33638	47,8 47,8	37702		1 .05703		
1.515 o	•33542 •33590 •33638	47,8		39,4		8,4	.0421
.516	.33590 .33638	47,8	0 255 10	1	•95792	8,4	.04208
	.33638	47,8	0.37742 .37781	39,4	9.95800	8,4	0.04200
.517		47,8	.37821	39,4 39,4	.95817	8,4 8,4	.04192
.518	.33685	47,8	37860	39,4	.95825	8,4	.04183
.519	•33733	47,8	37900	39,5	.95834	8,3	.04175
	.33781	47,8	0.37939	39,5	9.95842	8,3	0.04158
	.33829	47,8	•37979	39,5	.95850	8,3	.04150
	.33877	47,8	.38018	39,5	95859	8.3	.04141
	•33924	47,8	.38057	39,5	95867	8,3	.04133
524	.33972	47,8	38097	39,5	.95875	8,3	.04125
		47,7	0.38136	39,5	9.95883	8,2	0.04117
		47,7	.38176	39,5	.95892	8,2	.04108
		47,7	.38215	39,5	.95900	8,2	.04100
		47,7	.38255	39,5	95908	8,2	.04092
.529	.34211	47,7	.38295	39,5	.95916	8,2	.04084
		47,7	0.38334	39,5	9.95924	8,2	0.04076
1	34306	47,7	38374	39,5	•95933	8,1	.04067
		47,7	38413	39,6	•95941	8,1	.04059
1		47,7 47,7	.38453 .38492	<b>39,</b> 6	•95949	8,1	.04051
		- 1		39,6	·95957	8,1	.04043
		17,7 17,6	0.38532	39,6	9.95965	8,1	0.04035
		7,6	.38611	39,6	95973	8,1	.04027
		7,6	.38651	<b>39,</b> 6 <b>39,</b> 6	.95981	8,0	<b>.0</b> 4019
.539		7,6	.38690	<b>39,</b> 6	.95989	8,0	.04011
İ	•				95997	8,0	.04003
		7,6	0.38730	39,6	9.96005	8,0	0.03995
	34830 4	17,6 17,6	.38769 .38809	39,6	.96013	8,0	.03987
		7,6	.38849	39,6 30,6	.96021	8,0	.03979
		7,6	.38888	39,6 39,6	.96029 .96037	8,0	.03971
			,	39,0		7,9	.03963
		7,6 7,6	0.38928 .38968	39,6	9.96045	7,9	0.03955
		7,6	39007	39,7	.96053	7,9	.03947
		7,5	.39047	39.7	.96061	7,9	.03939
		7,5	39087	39,7 39,7	.96077	7,9 7,9	.03931
1.550 0.	35211 4	7,5	0.39126	39,7	9.96084	7,8	0.03916
u log ta	ıngdu ω Fo′	log	sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log csc gd u
	1			Nacional Company		- 7	80 Mr fl
MITHSONIAN TA	BLES		50				
. *			J.C				

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>o</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
<b> </b>	ا ــــــــــــــــــــــــــــــــــــ	1000	0.39126				
1.550	0.35211	47,5 47,5	.39120	39,7 39,7	9.96084 .96092	7,8 7,8	0.03916 .03908
.551 .552	35306	47,5	.39206	39,7	.96100	7,8	.03900
553	35353	47,5	39245	39,7	.96108	7,8	.03892
•554	.35401	47,5	.39285	39,7	.96116	7,8	.03884
1.555	0.35448	47,5	0.39325	39,7	9.96123 .96131	7,8	0.03877 .03869
.556	.35496	47,5 47,5	. 39365 . 39404	39,7 39,7	.96139	7.7	.03861
· 557 · 558	·35543 ·35591	47,5	•39444	39,7	.96147	7,7	.03853
•559	35638	47,5	39484	39,7	.96154	7,7	.03846
1.560	0.35686	47.4	0.39524	39,8	9.96162	7,7	0.03838
.561	•35733	47,4	.39563	39,8	.96170	7,7	.03830
.562	35780 35828	47,4	.39603 .39643	39,8	.96177 .96185	7.7	.03823
.563 .564	.35875	47,4 47,4	.39683	39,8 39,8	.96193	7,6 7,6	.03815
1.565	0.35923	47,4	0.39722	39,8	9.96200	7,6	0.03800
.566	.35970	47,4	39762	39,8	.96208	7,6	.03792
567	.36017	47,4	.39802	39,8	.96215	7,6	.03785
. 568	.36065	47,4	.39842	39,8	.96223	7,6	.03777
. 569	.36112	47,4	.39882	39,8	.96231	7,5	.03769
1.570	0.36160	47,4	0.39921	39,8	9.96238	7,5	0.03762
.571	.36207	47,4	.39961	39,8	.96246	7,5	.03754
.572	.36254	47,3	.40001	39,8	.96253	7,5	.03747
-573	.36302	47,3	40041	39,8	.96261	7,5	.03739
•574	.36349	47,3	.40081	39,9	.96268	7,5	.03732
1.575	0.36396	47,3	0.40121	39,9	9.96276	7,5	0.03724
.576	.36444	47,3	.40161	39,9	.96283	7,4	.03717
· 577 · 578	.36491	47,3	.40200	39,9	.96291 .96298	7,4	.03709
	.36538 .36585	47.3	.40240 .40280	39,9	96305	7,4	.03702
.579		47,3		39,9		7,4	.03695
1.580	0.36633	47,3	0.40320	39,9	9.96313	7,4	0.03687
.581	.36680	47,3	40360	39,9	.96320	7,4	.03680
.582	.36727	47,3	40400	39,9	.96327	7,4	.03673
.583 .584	•36775 •36822	47,3	.40440 .40480	39,9 39,9	.96335 .96342	7.3	.03665
1 33	Tanah Tanah Alb	47,2		er i f		7,3	
1.585 .586	0.36869	47,2	0.40520	39,9	9.96349	7,3	0.03651
.580	.36916 .36964	47,2	.40560 .40599	39,9	.96357 .96364	7.3	.03643 .03636
.588	.37011	47,2 47,2	.40539	39,9 39,9	96371	7,3	.03629
.589	.37058	47,2	.40679	40,0	.96379	7,3 7,3	.03621
1.590	0.37105	47,2	0.40719	40,0	9.96386	7,2	0.03614
.591	.37152	47,2	.40759	40,0	.96393	7,2	.03607
.592	.37200	47,2	.40799	40,0	.96400	7,2	.03600
593	.37247	47,2	.40839	40,0	.96407	7,2	.03593
•594	·37294	47,2	.40879	40,0	.95415	7,2	.03585
1.595	0.37341	47,2	0.40919	40,0	9.96422	7,2	0.03578
.596	.37388	47,2	.40959	40,0	.96429	7,2	.03571
-597	-37435	47,1	.40999	40,0	.96436	7,1	.03564
.598	.37482	47,1	.41039	40,0	.96443	7,1	.03557
•599	.37530	47,1	.41079	40,0	.96450	7,1	.03550
1.600	0.37577	47,1	0.41119	40,0	9.96457	7,1	0.03543
u 🧺	log tan gd u	ω F₀′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

u		og sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.6 .6 .6	01	0.37577 .37624 .37671 .37718	47,1	0.41119 .41159 .41199 .41239	40,0	9.96457 .96465 .96472 .96479	7,1	0.03543 .03535 .03528 .03521
.6	04	.37765	·	.41279	40,1	.96486	7,0	.03514
1.6 .6 .6 .6	06 07 08	0.37812 .37859 .37906 .37953 .38001	47,1	0.41319 .41360 .41400 .41440 .41480	40,1	9.96493 .96500 .96507 .96514 .96521	7,0	0.03507 .03500 .03493 .03486 .03479
1.6 .6 .6	11   12   13	0.38048 .38095 .38142 .38189 .38236	47.0	0.41520 .41560 .41600 .41640 .41680	40,1	9.96528 .96535 .96542 .96548 .96555	7,0 6,9	0.03472 .03465 .03458 .03452 .03445
1.6 .6 .6	16 17	0.38283 .38330 .38377 .38424 .38471	47,0	0.41720 .41761 .41801 .41841 .41881	40,1	9.96562 .96569 .96576 .96583	6,9 6,8	0.03438 .03431 .03424 .03417 .03410
1.6 .6 .6	2I 22	0.38518 .38565 .38612 .38659 .38705	47,0 46,9	0.41921 .41961 .42001 .42042 .42082	40,2	9.96597 .96603 .96610 .96617 .96624	6,8	0.03403 .03397 .03390 .03383 .03376
.6	26 27	0.38752 .38799 .38846 .38893 .38940	46,9	0.42122 .42162 .42202 .42243 .42283	40,2	9.96630 .96637 .96644 .96651	6,7	0.03370 .03363 .03356 .03349 .03343
.6	30 31 32 33 34	0.38987 .39034 .39081 .39128 .39175	46,9	0.42323 .42363 .42403 .42444 .42484	40,2	9.96664 .96671 .96677 .96684 .96691	6,7 6,6	0.03336 .03329 .03323 .03316 .03309
1.6 .6 .6	36 37	0.39221 .39268 .39315 .39362 .39409	46,9 46,8	0.42524 .42564 .42605 .42645 .42685	40,2 40,3	9.96697 .96704 .96710 .96717	6,6	0.03303 .03296 .03290 .03283 .03276
.6	40 41 42 43 44	0.39456 .39502 .39549 .39596 .39643	46,8	0.42725 .42766 .42806 .42846 .42887	40,3	9.96730 .96737 .96743 .96750 .96756	6,5	0.03270 .03263 .03257 .03250
6	46	0.39690 .39736 .39783 .39830	46,8	0.42927 .42967 .43008 .43048	40,3	9.96763 .96769 .96776 .96782	6,5 6,4	0.03237 .03231 .03224 .03218
	49	·39877 0·39923	46,8	.43088 0.43129	40.3	9.96795	6,4	0.03212
<u> </u>		log tan gd u	ω F <sub>0</sub> ′	log:sec:gd u	ω F <sub>0</sub> '	log sin gd u	ω F <sub>0</sub> '	log csc gd u

Logarithms of Hyperbolic Functions.

1.650	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>o</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
.651 33070 46,7 .43160			.60	0. 40700				0.02205
652					40,3		U <sub>5</sub> 4	
.6534006443250968200318605380544011043290058200318605380058240110031860582058200318605824020443371968336303167655402514341196840031860318602074345196840031670316705540251434119684003160031600316105820207434519684603186031860582020743451968460318603186058202074345196846031860318605820314843402			40,7		40.4			
1.655	.653				4494			
1.655								.03180
.656							_	
.657 .40251 .43411 .96840 .03160 .03160 .658 .40297 .40344 .43451 .96846 .03154 .659 .40344 .43451 .96852 .03135 .03168 .661 .40437 .43573 .96855 .0687 .03134 .43653 .96865 .30135 .662 .40484 .43653 .96877 .03129 .663 .40531 .43653 .96885 .03135 .664 .40577 .43694 .39683 .62 .03112 .03123 .666 .40671 .46,6 .43775 .43856 .96886 .306887 .03135 .666 .40671 .46,6 .43775 .96886 .03035 .666 .40671 .46,6 .43775 .96886 .03036 .03002 .03008 .668 .40764 .43856 .4058 .40764 .43856 .4058 .40964 .43856 .4058 .40964 .43856 .4056 .9698 .03008 .03008 .668 .40764 .43896 .405 .96915 .03085 .03085 .676 .40914 .4008 .96980 .03038 .03001 .03061 .676 .41137 .4008 .96980 .03039 .03061 .676 .41137 .4008 .96980 .03039 .03061 .676 .41137 .4008 .96980 .03039 .03061 .676 .41137 .40097 .44058 .90933 .03031 .03061 .676 .41137 .44098 .96930 .03031 .03061 .676 .41137 .44098 .96931 .03061 .03061 .676 .41137 .44098 .96931 .03061 .03061 .676 .41330 .44260 .96997 .03073 .03061 .03061 .676 .41330 .44260 .96997 .03073 .03061 .03061 .678 .41230 .44260 .96997 .03073 .03061 .03061 .678 .41230 .44260 .96997 .03030 .03061 .03061 .678 .41230 .44260 .96997 .03030 .03061 .03061 .678 .41230 .44260 .96997 .03030 .03061 .03061 .678 .41230 .44260 .96997 .03030 .03061 .03061 .684 .41370 .44450 .96997 .03030 .03061 .03061 .686 .41370 .44463 .97000 .03030 .03061 .03061 .686 .41370 .4456 .44463 .97000 .03030 .03061 .686 .41360 .44463 .44463 .97000 .03030 .03061 .686 .41360 .44463 .97000 .03030 .03061 .686 .41609 .44466 .97002 .97036 .03024 .44868 .97038 .97036 .03024 .44868 .97038 .97036 .03036 .0			46,7		40,4			
.658			. '				0,3	
1.660								
1.660         0.40391         46,7         0.43532         40,4         9.96858         6,3         0.03142           .661         .40484         .43613         .96871         .03123           .662         .40484         .43613         .96871         .03123           .663         .40531         .43653         .96883         6,2         .03117           1.665         0.40624         46,7         0.43734         40,4         9.96890         6,2         .03116           .666         .4071         46,6         .43775         .96896         .03104         .03104           .666         .40764         .43815         .96902         .03085         .03092         .03085           .669         .40811         .43856         .96902         .03085         .03092         .03085           1.670         .40857         46,6         0.43937         40,5         9.96921         6,2         0.03079           .671         .40904         .44078         .90933         6,1         .03067         .07373         .44078         .90933         6,1         .03067         .03073         .03043         .05095         .03055         .03055         .03074         .44078								
.661 .40437 .43573 .96865 .03135 .662 .40484 .43513 .43513 .96877 .03123 .663 .40531 .43553 .96877 .03123 .664 .40577 .43694 .96883 .6,2 .03117 .665 .40624 .46,7 .43734 .40,4 .9.96896 .6,2 .0.3110 .666 .40671 .43815 .96902 .03098 .669 .40717 .43815 .96902 .03098 .669 .40811 .43856 .96908 .03098 .669 .40811 .43856 .96908 .03098 .03098 .669 .40811 .43896 .40,5 .96905 .03093 .03093 .671 .40904 .43977 .96933 .6,1 .03067 .672 .40950 .444017 .96933 .6,1 .03067 .672 .40950 .444078 .96905 .03092 .03093 .674 .41044 .44098 .96945 .03093 .674 .41044 .44098 .96945 .03035 .674 .41137 .44179 .96957 .03065 .03055 .676 .41137 .44179 .96957 .03063 .03055 .678 .41230 .44220 .96904 .03036 .678 .41230 .44220 .96904 .03036 .678 .41230 .44260 .96970 .03036 .678 .41230 .44260 .96970 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41370 .4450 .96976 .03036 .681 .41466 .44422 .96994 .03066 .683 .41463 .97000 .03066 .683 .41463 .97000 .03066 .683 .41463 .97000 .03066 .683 .41463 .97000 .03066 .684 .41509 .44503 .97000 .03006 .02993 .02906 .688 .41605 .44666 .97036 .97036 .02906 .	.039	140344		•43492		.9000,2		103140
.661 .40437	1.660	0.40391	46,7	0.43532	40,4	9.96858	6,3	0.03142
.663 .40531	.661	.40437		43573		.96865		.03135
.664         .40577         .43694         .96883         6,2         .03117           1.665         0.40624         46,7         0.43734         40,4         9.96890         6,2         0.0310           .666         .40671         40,5         .43815         .968902         .03098           .668         .40764         .43856         .96902         .03098           .669         .40811         .43896         40,5         .96915         .03085           1.670         0.40857         46,6         0.43937         40,5         .96921         6,2         0.3008           .671         .40904         .43977         .96927         .03073         .03067           .671         .40950         .44017         .96933         6,1         .03067           .672         .40950         .44078         .90933         6,1         .03061           .673         .40997         .4408         .90933         6,1         .03061           .674         .41137         .44179         .90957         .03031           .675         .41183         .44220         .90958         6,1         .03030           .678         .41230         .44260 <td< td=""><td></td><td>.40484</td><td></td><td>.43613</td><td></td><td>.96871</td><td></td><td>.03129</td></td<>		.40484		.43613		.96871		.03129
1.665         0.40624         46,7         0.43734         40,4         9.96890         6,2         0.03104           .666         .40671         46,6         .43775         .96806         .03098           .668         .40764         .43815         .96902         .03098           .668         .40764         .43896         40,5         .96915         .03032           .669         .40811         .43896         40,5         .96921         6,2         0.03079           .671         .40904         .43977         .96927         .03073         6,1         .03073           .672         .40950         .44078         .96933         6,1         .03061           .672         .40950         .44058         .96933         6,1         .03061           .673         .40997         .44058         .96945         .03061           .674         .41044         .44098         .96945         6,1         .03043           .675         .41137         .44179         .96951         6,1         .03043           .676         .41137         .44179         .96954         .03036           .678         .41227         .44391         .96976 <t< td=""><td>.663</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	.663							
.666         .40671         .46,6         .43775         .96806         .03104           .667         .40764         .43815         .96902         .03092           .668         .40764         .43856         .96908         .03092           .669         .40811         .43896         40,5         .96915         .03085           1.670         0.40857         46,6         0.43937         40,5         .906921         6,2         0.03079           .671         .40904         .43977         .906931         6,1         .03067           .672         .40950         .44017         .96933         6,1         .03073           .673         .40997         .44058         .96939         .03041         .03061           .674         .41044         .4408         .96955         6,1         .03036           .676         .41137         .4420         .96957         .03036         .0303           .677         .41183         .44220         .96970         .03036         .0303           .678         .41277         .44301         .96976         .03024         .0303           .681         .41370         46,5         .44381         40,5	.664	.40577		.43694	100	.96883	6,2	.03117
.666         .40671         .46,6         .43775         .96806         .03104           .667         .40764         .43815         .96902         .03092           .668         .40764         .43856         .96908         .03092           .669         .40811         .43896         40,5         .96915         .03085           1.670         0.40857         46,6         0.43937         40,5         .906921         6,2         0.03079           .671         .40904         .43977         .906931         6,1         .03067           .672         .40950         .44017         .96933         6,1         .03073           .673         .40997         .44058         .96939         .03041         .03061           .674         .41044         .4408         .96955         6,1         .03036           .676         .41137         .4420         .96957         .03036         .0303           .677         .41183         .44220         .96970         .03036         .0303           .678         .41277         .44301         .96976         .03024         .0303           .681         .41370         46,5         .44381         40,5	1.66e	0.40624	467	0.42734	40.4	0.06800	6.2	0.03110
.667 .40717 .43815 .96902 .03008 .03002 .03008 .669 .40811 .43896 .40,5 .96915 .03003 .03085 .05091 .43896 .40,5 .96915 .03003 .03085 .05091 .44094 .43097 .44098 .96933 .61 .030					4~94		,	
.668								
.669         .40811         .43896         40,5         .96915         .03085           1.670         0.40857         46,6         0.43937         40,5         9.96921         6,2         0.03079           .671         .40904         .43977         .96933         6,1         .03067           .672         .40950         .44058         .96933         6,1         .03067           .673         .40997         .44058         .96939         .03061           .674         .41044         .44098         .96945         .03036           .675         0.41090         46,6         0.44139         40,5         9.96951         6,1         0.03049           .676         .41137         .44179         .96957         .93036         .03036         .03049         .03036           .677         .41183         .44260         .96970         .03036         .03036         .03064         .03036         .03024         .03064         .03036         .03024         .03067         .03036         .03024         .03067         .03036         .03012         .03022         .03022         .03022         .03022         .03022         .03022         .03022         .03022         .03022         .03022				.43856				.03092
.671         .40904         .43977         .96927         .03073         .03073         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .041090         .46,6         0.44139         40,5         9.96951         6,1         0.03049         .03043         .0576         .03043         .03043         .03043         .03043         .03043         .0578         .041230         .44220         .096957         .03043         .03043         .0578         .41230         .44220         .09696         .03034         .03043         .0578         .41230         .44220         .09696         .03034         .03064         .03034         .05679         .42777         .444301         .06976         .03024         .03002         .03062         .044341         40,5         9.9688         .03012         .03062         .03018         .081         .41370         .46,5         .444382         .96988         .03012         .03002         .03004         .03004         .03006         .03004         .03006         .03004         .03000         .03006         .03004	.669	.40811		.43896	40,5	.96915		.03085
.671         .40904         .43977         .96927         .03073         .03073         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .03067         .041090         .46,6         0.44139         40,5         9.96951         6,1         0.03049         .03043         .0576         .03043         .03043         .03043         .03043         .03043         .0578         .041230         .44220         .096957         .03043         .03043         .0578         .41230         .44220         .09696         .03034         .03043         .0578         .41230         .44220         .09696         .03034         .03064         .03034         .05679         .42777         .444301         .06976         .03024         .03002         .03062         .044341         40,5         9.9688         .03012         .03062         .03018         .081         .41370         .46,5         .444382         .96988         .03012         .03002         .03004         .03004         .03006         .03004         .03006         .03004         .03000         .03006         .03004	- 6-0	0.10011	16.6	n (0000	40.5	n 06001	60	0.02070
.672			40,0	1. 0, 10,177,187,087,676,777	40,5		<u>ح</u> ون	
.673         .40997         .44058         .96939         .03061           .674         .41044         .44098         .96945         .03055           1.675         0.41090         46,6         0.44139         40,5         9.96951         6,1         0.03049           .676         .41137         .44179         .96957         .03043         .03036         .03033           .677         .41183         .44260         .96970         .03030         .03030         .05970         .03030           .679         .41277         .44301         .96976         .03032         .03024           1.680         0.41323         46,6         0.44341         40,5         9.96982         6,0         0.0308           .681         .41370         46,5         .44382         .96988         .03012         .03002           .682         .41416         .44422         .96994         .03006         .03006           .683         .41463         .44463         .97000         .03000         .03000           .684         .41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .687         .41649         .44655         4			-				6.1	
.674       .41044       .44098       .96945       .03055         1.675       0.41090       46,6       0.44139       40,5       9.96951       6,1       0.03049         .676       .41137       .44179       .96957       .03036         .678       .41230       .44260       .96970       .03036         .678       .41277       .44301       .96976       .03036         .681       .41370       .46,5       .44382       .96982       6,0       0.03018         .682       .41416       .44463       .97000       .03006       .03006         .683       .4163       .44463       .97000       .03000         .684       .41509       .44503       .97012       6,0       0.02982         .686       .41602       .44585       .97018       .02962       .02962         .686       .41602       .44584       40,5       9.97012       6,0       0.02983         .687       .41649       .44685       40,6       .97024       .02976       .02976         .688       .41695       .44666       .97047       .0293       .02976       .0293         .691       .41835       .44787       .97047<	673		•				٠,٠	
1.675         0.41090         46,6         0.44139         40,5         9.96951         6,1         0.03049           .676         .41137         .44179         .96957         .03043           .677         .41183         .44220         .96964         .03036           .678         .41230         .44260         .96970         .03030           .679         .41277         .44301         .96976         .03030           .681         .41370         .46,5         .44382         .96988         .03012           .682         .41416         .44422         .96994         .03006         .03006           .683         .41463         .44422         .96994         .03006         .03006           .684         .41509         .44503         .97000         .03000         .03000           .685         .41602         .44585         .97018         .02982         .00         .02934           .686         .41602         .44585         .97018         .02982         .00         .02934           .687         .41649         .44625         40,6         .97024         .02976         .02962           .688         .41742         .44706         .97036 </td <td>.674</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	.674							
.676         .41137         .44179         .96957         .03043           .677         .41183         .44220         .96964         .03036           .678         .41230         .44260         .96970         .03030           .679         .41277         .44301         .96976         .03030           .681         .41370         46,5         .44382         .96988         .003012           .682         .41416         .44422         .96994         .03006           .683         .41463         .44463         .97000         .03006           .684         .41509         .44503         .97006         .03006           .685         .41602         .44585         .97012         60         0.02988           .686         .41602         .44585         .97018         .02982           .687         .41649         .44625         40,6         .97024         .02963           .688         .41695         .44666         .97030         5.9         .02976           .689         .41742         .44666         .97042         5.9         0.02958           .691         .41835         .44787         .97047         .02953         .02947							_	
.677         .41183         .44220         .96964         .03036           .678         .41230         .44260         .96976         .03036           .679         .41277         .44301         .96976         .03036           1.680         0.41323         46,6         0.44341         40,5         9.96982         6,0         0.03018           .681         .41370         46,5         .44382         .96994         .03006           .682         .41416         .44422         .96994         .03006           .683         .41463         .44463         .97000         .03000           .683         .41459         .44503         .97006         .02963           1.685         0.41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .686         .41602         .44585         .97018         .0293         .02976           .688         .41695         .44666         .97024         .02976           .689         .41742         .44767         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         40,6         9.97047         .02953         .02947 </td <td></td> <td></td> <td>46,6</td> <td></td> <td>40,5</td> <td></td> <td>6,1</td> <td></td>			46,6		40,5		6,1	
.678        41230        44260        96970        03030        03030        03024           1.680         0.41323         46,6         0.44341         40,5         9.96982         6,0         0.03018           .681        41370         46,5        44382        96988        03012           .682        41416        44463        97000        03006           .683        41450        44463        97000        03006           .684        41509        44503        97006        03000           .684        41509        44503        97006        03000           .685         0.41556         .46,5         0.44544         40,5         9.97012         6,0         0.02983           .686        41602        44585        97018        02982								
.679         .41277         .44301         .96976         .03024           1.680         0.41323         46,6         0.44341         40,5         9.96982         6,0         0.03018           .681         .41370         46,5         .44382         .96998         .03012         .03006           .682         .41416         .44463         .97000         .03006         .03006           .683         .41463         .44463         .97006         .02903           1.685         0.41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .686         .41602         .44585         .97018         .02982         .02982           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02976           .689         .41742         .44706         .997042         5,9         .02958           .691         .41835         .44787         .97047         .02958         .02953           .692         .41881         .44828         .97053         .02947         .02947           .693         .41928 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
1.680         0.41323         46,6         0.44341         40,5         9.96982         6,0         0.03018           .681         .41370         46,5         .44382         .96988         .03012           .682         .41416         .44422         .96994         .03006           .683         .41463         .97000         .03000           .684         .41509         .44503         .97006         .03000           .684         .41509         .44503         .97012         6,0         0.02983           .685         .41602         .44585         .97018         .02982         .02982           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02976           .691         .41835         .44787         .97047         .02953         .02947           .692         .41881         .44828         .97053         .02947         .02947           .693         .41928         .44869         .97059         .02931         .02931								
.681         .41370         46,5         .44382         .96988         .03012           .682         .41416         .44422         .96994         .03006           .683         .41463         .44463         .97000         .03000           .684         .41509         .44503         .97006         .03000           .684         .41509         .44503         .97012         6,0         .02982           .686         .41602         .44585         .97018         .02982           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02976           .691         .41835         .44787         .97047         .02953           .692         .41881         .44828         .97047         .02947           .693         .41928         .44869         .97053         .02947           .694         .41974         .44900         .97075         .02935           1.695         0.42021         46,5         0.44950         .97077         5,9	.0/9	.412//	44.46	.44301		.909/0	* * . * . * . * . * . * . * . * . * . *	10,302.4
.681         .41370         46,5         .44382         .96988         .03012           .682         .41416         .44422         .96994         .03006           .683         .41463         .44463         .97000         .03000           .684         .41509         .44503         .97006         .03000           1.685         0.41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .686         .41602         .44585         .97018         .02982         .02976           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02976           .691         .41835         .44787         .97047         .02953           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02947           .694         .41974         .44900         .97077         .5,9         .02935           1.695         0.42021		0.41323	46,6	0.44341	40,5	9.96982	6,0	0.03018
.683       .41463       .44463       .97000       .03000         .684       .41509       .44503       .97006       .03000         1.685       0.41556       46,5       0.44544       40,5       9.97012       6,0       0.02988         .686       .41602       .44585       .97018       .02982       .02982         .687       .41649       .44625       40,6       .97024       .02976         .688       .41695       .44666       .97030       5,9       .02976         .689       .41742       .44706       .97035       5,9       .02976         .690       .41788       46,5       0.44747       40,6       9.97042       5,9       0.02958         .691       .41835       .44787       .97047       .02953       .02953         .692       .41881       .44828       .97053       .02947         .693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02935         1.695       0.42021       46,5       0.44950       40,6       9.9707       5,9       0.02923         .696       .42067       .44990       .97083 <td></td> <td></td> <td>46,5</td> <td>.44382</td> <td></td> <td></td> <td></td> <td></td>			46,5	.44382				
.684         .41509         .44503         .97006         .02994           1.685         0.41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .686         .41602         .44585         .97018         .02982         .02976           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02970           .691         .41835         .44787         .97047         .02953           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02947           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.92929           .696         .42067         .44990         .97077         .02931         .02917           .698         .42160         .45072         .97089         .97089         .02917 <td>.682</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	.682							
1.685         0.41556         46,5         0.44544         40,5         9.97012         6,0         0.02988           .686         .41602         .44585         .97018         .02982         .02976           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .997042         5,9         .02964           1.690         0.41788         46,5         0.44747         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         .97047         .97047         .02953         .02947           .692         .41881         .44888         .97053         .02947         .02947           .693         .41928         .44869         .97059         .02941           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.92929           .696         .42067         .44990         .97077         .97083         5,8         .02917	.683							
.686         .41602         .44585         .97018         .02982           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02970           .690         .41788         46,5         0.44747         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         .97047         .02953         .02947           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02941           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.02929           .696         .42067         .44990         .97077         .02933         .02917           .698         .42160         .45072         .97089         .02917           .699         .42207         .45112         .97094         .02900	.084	.41509		•44503		97000		.02994
.686         .41602         .44585         .97018         .02982           .687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02970           .690         .41788         46,5         0.44747         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         .97047         .02953         .02947           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02941           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.02929           .696         .42067         .44990         .97077         .02933         .02917           .698         .42160         .45072         .97089         .02917           .699         .42207         .45112         .97094         .02900	1.685	0.41556	46.5	0.44544	40.5	9.97012	6.0	0.02088
.687         .41649         .44625         40,6         .97024         .02976           .688         .41695         .44666         .97030         5,9         .02970           .689         .41742         .44706         .97036         5,9         .02970           .1.690         0.41788         46,5         0.44747         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         .97047         .02953         .02947           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02941           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.02929           .696         .42067         .44990         .97077         .02923         .02917           .698         .42160         .45072         .97089         .02917           .699         .42207         .45112         .97094         .02900           1.700         0.42253         46,4         0.45153         40,6         9.97100 </td <td>.686</td> <td></td> <td>7-70</td> <td></td> <td></td> <td></td> <td>,</td> <td>.02982</td>	.686		7-70				,	.02982
.689       .41742       .44706       .97036       .02964         1.690       0.41788       46,5       0.44747       40,6       9.97042       5,9       0.02958         .691       .41835       .44887       .97053       .02947         .692       .41881       .44828       .97053       .02941         .693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02935         1.695       0.42021       46,5       0.44950       40,6       9.97071       5,9       0.02929         .696       .42067       .44990       .97077       .07083       5,8       .02917         .698       .42114       46,4       .45031       .97083       5,8       .02917         .698       .42160       .45072       .97089       .02911       .02906         1.700       0.42253       46,4       0.45153       40,6       9.97100       5,8       0.02900	.687	.41649			40,6			.02976
1.690         0.41788         46,5         0.44747         40,6         9.97042         5,9         0.02958           .691         .41835         .44787         .97047         .92953           .692         .41881         .44828         .97053         .02947           .693         .41928         .44869         .97059         .02947           .694         .41974         .44909         .97065         .02935           1.695         0.42021         46,5         0.44950         40,6         9.97071         5,9         0.02929           .696         .42067         .44990         .97077         .02923         .02917           .697         .42114         46,4         .45031         .97083         5,8         .02917           .698         .42160         .45072         .97089         .02911         .02906           .699         .42207         .45112         .97094         .02900           1.700         0.42253         46,4         0.45153         40,6         9.97100         5,8         0.02900							5,9	
.691       .41835       .44787       .97047       .02953         .692       .41881       .44828       .97053       .02947         .693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02935         I .695       0.42021       46,5       0.44950       40,6       9.97071       5,9       0.02929         .696       .42067       .44990       .97077       .02923       .02923         .697       .42114       46,4       .45031       .97083       5,8       .02917         .698       .42160       .45072       .97089       .02917       .02901         .699       .42207       .45112       .97094       .02906         1.700       0.42253       46,4       0.45153       40,6       9.97100       5,8       0.02900	.689	.41742		.44700		.97036		.02904
.691       .41835       .44787       .97047       .02953         .692       .41881       .44828       .97053       .02947         .693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02935         I .695       0.42021       46,5       0.44950       40,6       9.97071       5,9       0.02929         .696       .42067       .44990       .97077       .02923       .02923         .697       .42114       46,4       .45031       .97083       5,8       .02917         .698       .42160       .45072       .97089       .02917       .02901         .699       .42207       .45112       .97094       .02906         1.700       0.42253       46,4       0.45153       40,6       9.97100       5,8       0.02900	1,600	0.41788	46.¢	0.44747	40.6	0.07042	5.0	0.02058
.692       .41881       .44828       .97053       .02947         .693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02935         I.695       0.42021       46,5       0.44950       40,6       9.97071       5,9       0.92929         .696       .42067       .44990       .97077       .97083       5,8       .02917         .698       .42160       .45072       .97089       .02917         .699       .42207       .45112       .97094       .02906         I.700       0.42253       46,4       0.45153       40,6       9.97100       5,8       0.02900			40,3	.44787	المراضة			
.693       .41928       .44869       .97059       .02941         .694       .41974       .44909       .97065       .02941         1.695       0.42021       46,5       0.44950       40,6       9.97071       5,9       0.92929         .696       .42067       .44990       .97077       .02923       .02923         .697       .42114       46,4       .45031       .97083       5,8       .02917         .698       .42160       .45072       .97089       .02911       .02906         1.700       0.42253       46,4       0.45153       40,6       9.97100       5,8       0.02900				.44828	,			
.694     .41974     .44909     .97065     .02935       I.695     0.42021     46,5     0.44950     40,6     9.97071     5,9     0.02929       .696     .42067     .44990     .97077     0.02923       .697     .42114     46,4     .45031     .97083     5,8     .02917       .698     .42160     .45072     .97089     .02911     .02901       .699     .42207     .45112     .97094     .02906       I.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900						.97059		
.696     .42067     .44990     .97077     .02923       .697     .42114     .46,4     .45031     .97083     5,8     .02917       .698     .42160     .45072     .97089     .02911       .699     .42207     .45112     .97094     .02901       1.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900	.694					.97065		.02935
.696     .42067     .44990     .97077     .02923       .697     .42114     .46,4     .45031     .97083     5,8     .02917       .698     .42160     .45072     .97089     .02911       .699     .42207     .45112     .97094     .02901       1.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900	T for	0 42021	AKT	0.44050	/n.6	0.07071	at n	0.02020
.697     .42114     46,4     .45031     .97083     5,8     .02917       .698     .42160     .45072     .97089     .02911       .699     .42207     .45112     .97094     .02906       1.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900			40,5		.sp <b>0</b> 30			
.698     .42160     .45072     .97089     .02911       .699     .42207     .45112     .97094     .02906       1.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900			46,4				5,8	
.699     .42207     .45112     .97094     .02906       1.700     0.42253     46,4     0.45153     40,6     9.97100     5,8     0.02900			* 4.1					
							,	
u lon tan ad u w Fe' lon see ad u w Fe' lon sin ad u w Fe' lon see ad u	1.700	0.42253	46,4	0.45153	40,6	9.97.100	5,8	0.02900
a ling this day and ling on the line on the line on the	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω <b>F</b> <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω Fo'	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.700	0.42253	46,4	0.45153	40,6	9.97100	5,8	0.02900
.701	.42299		.45193		.97106		.02894
.702	.42346		.45234		.97112		.02888
.703	.42392		.45275		.97118		.02882
.704	.42439		.45315		.97123		.02877
1.705	0.42485	46,4	0.45356	40,7	9.97129	5,7	0.02871
.706	.42531		•45397		.97135		.02865
.707	.42578	-	•45437		.97141		.02859
.708	.42624		.45478		.97146		.02854
.709	.42671		.45519		.97152		.02848
1.710	0.42717	46,4	0.45559	40,7	9.97158	5,7	0.02842
.711	.42763		.45600	• //	.97163	•	.02837
.712	.42810		.45641		97169		.02831
.713	.42856	46,3	.45681		97175		.02825
.714	.42902		.45722		.97180	5,6	.02820
1.715	0.42949	46,3	0.45763	40,7	9.97186	5,6	0.02814
.716	.42995	1-70	45803	1-74	.97192	0, -	.02808
.717	.43041		45844		.97197		.02803
.718	.43088		.45885		.97203	1 4	.02797
.719	.43134		.45925		97208		.02792
1.720	0.43180	46,3	0.45966	40,7	9.97214	5,6	0.02786
.721	.43227	4-70	.46007	4-17	.97220	<b>0</b> ,-	.02780
.722	.43273		.46048		.97225	'	.02775
.723	.43319		.46089		.97231	5,5	.02769
.724	.43365		.46129	40,8	.97236		.02764
1.725	0.43412	46,3	0.46170	40,8	9.97242	5,5	0.02758
.726	43458	49,5	.46211	40,0	.97247	3,3	.02753
.727	.43504		.46252		.97253		.02747
.728	·4355I		.46292		.97258		.02742
.729	•43597		.46333		.97264		.02736
1.730	0.43643	46,2	0.46374	40,8	9.97269	5,5	0.02731
.731	.43689	,	.46415	,	.97275	0.0	.02725
.732	.43736		.46455		.97280	5,4	.02720
.733	.43782		.46496		.97285	0,1	.02715
.734	.43828		46537		97291		.02709
1.735	0.43874	46,2	0.46578	40,8	9.97296	5,4	0.02704
.736	.43920	-4-1-4	46619	1-,-	.97302	U/-T	.02698
.737	.43967		.46660		.97307		.02693
.738	.44013		46700		.97313		.02687
.739	.44059		.46741		.97318		.02682
1.740	0.44105	46,2	0.46782	40,8	9.97323	5,4	0.02677
.741	44151		.46823	• 1	.97329	5,3	.02671
.742	.44198		.46864		97334	2,3	.02666
.743	.44244		46905		97339		.02661
744	.44290		.46945	40,9	•97345		.02655
I.745	0.44336	46,2	0.46986	40,9	9.97350	5,3	0.02650
.746	.44382		.47027		•97355	2.3	.02645
.747	.44428		.47068		.97360		.02640
.748	•44475	46,1	.47109		.97366		.02634
749	.44521		.47150		.97371		.02629
1.750	0.44567	46,1	0.47191	40,9	9.97376	5,3	0.02624
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>2</sub> '	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.750 .751 .752 .753 .754	0.44567 .44613 .44659 .44705 .44751	46,1	0.47191 .47231 .47272 .47313 .47354	40,9	9.97376 .97382 .97387 .97392 .97397	5,3 5,2	0.02624 .02618 .02613 .02608 .02603
1.755 .756 .757 .758 .759	0.44797 .44844 .44890 .44936 .44982	46,1	0.47395 .47436 .47477 .47518 .47559	40,9	9.97402 .97408 .97413 .97418 .97423	5,2	0.02598 .02592 .02587 .02582 .02577
1.760 .761 .762 .763 .764	0.45028 .45074 .45120 .45166 .45212	46,1	0.47600 .47641 .47682 .47722 .47763	40,9	9.97428 .97433 .97439 .97444 .97449	5,1	0.02572 .02567 .02561 .02556 .02551
1.765 .766 .767 .768 .769	0.45258 .45304 .45350 .45396 .45442	46,1 46,0	0.47804 .47845 .47885 .47927 .47968	41,0	9.97454 .97459 .97464 .97469 .97474	5,1	0.02546 .02541 .02536 .02531 .02526
1.770 771 772 773 774	0.45488 .45534 .45580 .45627 .45673	46,0	0.48009 48050 48091 48132 48173	41,0	9·97479 .97484 .97489 .97494 .97499	5,0	0.02521 .02516 .02511 .02506 .02501
1.775 .776 .777 .778 .779	0.45719 .45765 .45810 .45856 .45902	46,0	0.48214 .48255 .48296 .48337 .48378	41,0	9.97504 .97509 .97514 .97519 .97524	5,0	0.02496 .02491 .02486 .02481 .02476
1.780 .781 .782 .783 .784	0.45948 .45994 .46040 .46086 .46132	46,0	0.48419 .48460 .48501 .48542 .48583	41,0	9.97529 .97534 .97539 .97544 .97549	4,9	0.02471 .02466 .02461 .02456 .02451
1.785 .786 .787 .788 .789	0.46178 .46224 .46270 .46316 .46362	45,9	0.48624 .48666 .48707 .48748 .48789	41,1	9.97554 .97559 .97564 .97568 .97573	4,9	0.02446 .02441 .02436 .02432 .02427
1.790 .791 .792 .793 .794	0.46408 .46454 .46500 .46546 .46592	45,9	0.48830 .48871 .48912 .48953 .48994	41,1	9.97578 .97583 .97588 .97593 .97597	4,8	0.02422 .02417 .02412 .02407 .02403
1.795 .796 .797 .798 .799	0.46637 .46683 .46729 .46775 .46821	45,9	0.49035 .49076 .49117 .49159 .49200	41,1	9.97602 .97607 .97612 .97617 .97621	4,8	0.02398 .02393 .02388 .02383 .02379
1,800 u	0.46867	45,9 ω F <sub>0</sub> '	0.49241	41.1	9.97626	4,8	0.02374
l a	iog tan ga u	w ro	log sec ga u	ω F <sub>0</sub> /	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

Logarithms of Hyperbolic Functions.

1				1	<u>indipendantan</u>		
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.800 .801 .802 .803 .804	0.46867 .46913 .46959 .47004 .47050	45,9 45,8	0.49241 .49282 .49323 .49364 .49405	41,1	9.97626 .97631 .97636 .97640 .97645	4,8 4,7	0.02374 .02369 .02364 .02360 .02355
1.805 .806 .807 .808 .809	0.47096 .47142 .47188 .47234 .47279	45,8	0.49446 .49488 .49529 .49570 .49611	41,1 41,2	9.97650 .97654 .97659 .97664 .97668	4,7	0.02350 .02346 .02341 .02336 .02332
1.810 .811 .812 .813 .814	0.47325 .47371 .47417 .47463 .47509	45,8	0.49652 .49693 .49734 .49776 .49817	41,2	9.97673 .97678 .97682 .97687 .97692	4,7 4,6	0.02327 .02322 .02318 .02313 .02308
1.815 .816 .817 .818 .819	0.47554 .47600 .47646 .47692 .47737	45,8	0.49858 .49899 .49940 .49982 .50023	41,2	9.97696 .97701 .97705 .97710 .97715	4,6	0.02304 .02299 .02295 .02290 .02285
1.820 .821 .822 .823 .824	0.47783 .47829 .47875 .47921 .47966	45,8	0.50064 .50105 .50146 .50188 .50229	41,2	9.97719 .97724 .97728 .97733 .97737	4,6 4,5	0.02281 .02276 .02272 .02267 .02263
1.825 .826 .827 .828 .829	0.48012 .48058 .48104 .48149 .48195	45,7	0.50270 .50311 .50353 .50394 .50435	41,2	9.97742 .97746 .97751 .97755 .97760	4,5	0.02258 .02254 .02249 .02245 .02240
1.830 .831 .832 .833 .834	0.48241 .48286 .48332 .48378 .48424	45 <i>,7</i>	0.50476 .50518 .50559 .50600 .50641	41,3	9.97764 .97769 .97773 .97778 .97782	4,5 4,4	0.02236 .02231 .02227 .02222 .02218
1.835 .836 .837 .838 .839	0.48469 .48515 .48561 .48606 .48652	45, <i>7</i>	0.50683 .50724 .50765 .50806 .50848	41,3	9.97787 .97791 .97796 .97800 .97804	4,4	0.02213 .02209 .02204 .02200 .02196
1.840 .841 .842 .843	0.48598 .48743 .48789 .48835 .48880	45,7	0.50889 .50930 .50972 .51013 .51054	41,3	9.97809 .97813 .97817 .97822 .97826	4,4	0.02191 .02187 .02183 .02178
1.845 .846 .847 .848 .849	0.48926 .48972 .49017 .49063 .49109	45,7 45,6	0.51096 .51137 .51178 .51219 .51261	41,3	9.97831 .97835 .97839 .97843 .97848	4,3	0.02169 .02165 .02161 .02157 .02152
1.850	0.49154	45,6	0.51302	41,3	9.97852	4,3	0.02148
u	log tan.gd-u	ω F <sub>0</sub> '.	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
Smithsoni	AN TABLES		5	6			

1.850								
.851         .49200         .51343         .97856         .0.           .852         .49201         .51385         .97865         .0.           .853         .49201         .51468         41.4         .97865         .0.           .855         .49337         .51468         41.4         .97869         .0.           .856         .49428         .51550         .97878         4.2         .0.           .857         .49474         .51592         .97882         .0.           .858         .49559         .51674         .97890         .0.           .851         .49565         .51674         .97890         .0.           .851         .49595         .51674         .97890         .0.           .851         .49565         .51757         .97890         .0.           .861         .49565         .51757         .97890         .0.           .861         .49656         .51757         .97890         .0.           .862         .49702         .51840         .97903         .0.           .864         .49733         .51840         .97901         4.2         0.0           .865         .49838         45,6	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth
.852         .40246         .51385         .97861         .0.           .853         .49337         .51468         41.4         .97869         .0.           1.855         0.49382         45.6         0.51509         41.4         9.97873         4.3         0.0.           .856         .49428         .51550         .97878         4.2         .0.           .857         .49474         .51592         .97882         .0.           .858         .49519         .51633         .97886         .0.           .859         .49565         .51634         .97890         .0.           .861         .49660         45.6         0.51716         41.4         9.97895         4.2         0.0.           .861         .49656         .51757         .97899         .0.         .0.         .0.           .862         .49072         .51798         .97903         .0.         .0.         .0.           .863         .49493         .51840         .97901         4.2         0.0         .0.           .864         .49973         .51840         .97904         .0.         .0.         .0.         .0.         .0.         .0.         .0.         .			45,6		41,3		4,3	0.02
.853	.851							.02
.854       .49337       .51468       41,4       .97869       .02         1.855       0.49382       45,6       0.51509       41,4       9.97873       4,3       0.00         .857       .49474       .51592       .97886       .00         .858       .49519       .51633       .97886       .00         .858       .49505       .51674       .97890       .02         1.860       .49610       45,6       0.51716       41,4       .97895       4,2       0.00         .861       .49650       .51757       .97895       4,2       0.00       0.00         .862       .49702       .51798       .97903       .00       0.00       0.00         .863       .49747       .51840       .97907       0.00       0.00       0.00         .864       .49793       .51881       .97911       .00       0.00 <td></td> <td></td> <td></td> <td></td> <td></td> <td>.97861</td> <td></td> <td>.02</td>						.97861		.02
1.855	.853					.97865		.02
.846	.854	•49337		.51408	41,4	.97809		.02
.846	1.855	0.49382	45,6	0.51509	41,4	9.97873	4.3	0.02
.888         .49519         .51633         .97886         .0.           .859         .49565         .51674         .97890         .0.           .860         .49565         .51674         .97890         .0.           .861         .49656         .51757         .97890         .0.           .862         .49702         .51798         .97903         .0.           .863         .49747         .51840         .97907         .0.           .864         .49793         .51881         .97911         .0.           .865         .49838         45.6         0.51923         41,4         9.97916         4,2         0.0.           .866         .49884         .51964         .97920         .0.         .0.         .0.           .867         .49020         .52055         .97922         .0.         .0.           .868         .49075         .52047         .97928         4,1         .0.           .869         .50020         45.5         .52088         .97922         .0.           .871         .50112         .52171         .97936         4,1         .0.           .872         .50157         .52171         .97941	.856				1	.97878	4,2	.02
.859       .49565       .51674       .97890       .62         1.860       0.49610       45.6       0.51716       41,4       9.97895       4,2       0.00         .861       .49656       .51757       .97899       .00         .862       .49747       .51840       .97907       .00         .863       .49747       .51840       .97907       .00         .864       .49703       .51881       .97911       .00         1.865       .49838       45.6       0.51923       41,4       9.97916       4,2       0.0         .866       .49884       .52005       .97924       .00       .00         .867       .49929       .52005       .97928       4,1       .00         .868       .49975       .52048       .97928       4,1       .00         .870       .50066       45,5       0.52130       41,4       9.97936       4,1       .00         .871       .50112       .52171       .97945       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00       .00 <t< td=""><td>.857</td><td>•49474</td><td></td><td>.51592</td><td></td><td>.97882</td><td></td><td>.02</td></t<>	.857	•49474		.51592		.97882		.02
1.860	.858	.49519				.97886		.02
861         .49656         .51757         .97899         .00           .862         .49702         .51798         .97903         .00           .863         .49747         .51840         .97907         .00           .864         .49793         .51881         .97911         .00           1.855         0.49838         45,6         0.51923         41,4         9.97916         4,2         0.00           .866         .49884         .51964         .97920         .00         .00         .00           .867         .49029         .52005         .97924         .00 <td>.859</td> <td>.49565</td> <td></td> <td>.51674</td> <td>1</td> <td>.97890</td> <td></td> <td>.02</td>	.859	.49565		.51674	1	.97890		.02
.861         .49656         .51757         .97899         .00           .862         .49702         .51798         .97903         .00           .863         .49747         .51840         .97907         .00           .864         .49793         .51881         .97911         .00           1.865         0.49884         .51964         .97920         .00           .866         .49884         .51964         .97920         .00           .867         .49929         .52005         .97924         .00           .868         .49975         .52047         .97928         4,1         .00           .869         .50020         45.5         .52088         .97932         .00           .871         .50112         .52171         .97949         .00           .872         .50157         .52212         .97945         .00           .873         .50203         .52244         .97949         .00           .873         .50339         .52337         41,4         9.97957         4,1         0.0           .876         .50339         .52365         .52461         .97965         .00           .877         .5085	1.860	0.49610	45,6	0.51716	41,4	9.97895	4,2	0.02
.863       .49747       .51840       .97907       .00         .854       .49793       .51881       .97911       .00         1.865       0.49838       45,6       0.51923       41,4       9.97916       4,2       0.00         .866       .49884       .51064       .52005       .97924       .00       .00         .868       .49975       .52047       .97928       4,1       .00         .869       .50020       45,5       .52088       .97932       .00         .871       .50112       .52171       .97940       .00         .871       .50157       .52212       .97945       .00         .872       .50157       .52212       .97945       .00         .873       .50203       .52254       .97945       .00         .874       .50248       .52295       .97953       .00         .876       .50330       .52337       41,4       9.97957       4,1       0.0         .877       .50385       .52420       .97965       .00         .877       .50476       .52503       .97957       4,1       0.0         .878       .50430       .52440       .97965			****	.51757				.02
.864       .49793       .51881       .97911       .02         1.865       0.49838       45,6       0.51923       41,4       9.97916       4,2       0.02         .867       .49029       .52005       .97924       .02       .02       .02         .868       .49975       .52047       .97928       4,1       .00         .869       .50020       45,5       .52088       .97932       .00         1.870       0.50066       45,5       0.52130       41,4       9.97936       4,1       .00         .871       .50112       .52171       .97940       .00       .97945       .00         .871       .50112       .52171       .97945       .00       .00         .873       .50203       .52254       .97949       .00       .00         .874       .50248       .522378       .97957       4,1       .00         .877       .50339       .52378       .97967       .00         .877       .50385       .52420       .97965       .00         .877       .50430       .52461       .97965       .00         .878       .50430       .52461       .97977       4,0	.862	.49702		.51798	A CONTRACTOR	.97903		.02
.864       .49793       .51881       .97911       .02         1.865       0.49838       45,6       0.51923       41,4       9.97916       4,2       0.02         .867       .49029       .52005       .97924       .02       .02       .02         .868       .49975       .52047       .97928       4,1       .00         .869       .50020       45,5       .52088       .97932       .00         1.870       0.50066       45,5       0.52130       41,4       9.97936       4,1       .00         .871       .50112       .52171       .97940       .00       .97945       .00         .871       .50112       .52171       .97945       .00       .00         .873       .50203       .52254       .97949       .00       .00         .874       .50248       .522378       .97957       4,1       .00         .877       .50339       .52378       .97967       .00         .877       .50385       .52420       .97965       .00         .877       .50430       .52461       .97965       .00         .878       .50430       .52461       .97977       4,0	.863				interior and a second			02
.866       .4984       .51964       .97920       .0         .867       .49975       .52005       .97924       .0         .868       .49975       .52047       .97928       4.1       .0         .869       .50020       45.5       .52088       .97932       4.1       .0         .871       .50112       .52171       .97945       .0       .0         .872       .50157       .52212       .97945       .0       .0         .873       .50203       .52254       .97949       .0       .0         .874       .50248       .52295       .97953       .0       .0         .875       0.50294       45.5       0.52337       41,4       9.97957       4,1       0.0         .876       .50339       .52378       .97961       .0       .0         .877       .50385       .52420       .97965       .0         .878       .50430       .52461       .97969       .0         .878       .50430       .52461       .97969       .0         .878       .50567       .52583       .97981       .0         .881       .50567       .52568       .97985       <			-		19.1			.02
.866       .4984       .51964       .97920       .0         .867       .49975       .52005       .97924       .0         .868       .49975       .52047       .97928       4.1       .0         .869       .50020       45.5       .52088       .97932       4.1       .0         .871       .50112       .52171       .97945       .0       .0         .872       .50157       .52212       .97945       .0       .0         .873       .50203       .52254       .97949       .0       .0         .874       .50248       .52295       .97953       .0       .0         .875       0.50294       45.5       0.52337       41,4       9.97957       4,1       0.0         .876       .50339       .52378       .97961       .0       .0         .877       .50385       .52420       .97965       .0         .878       .50430       .52461       .97969       .0         .878       .50430       .52461       .97969       .0         .878       .50567       .52583       .97981       .0         .881       .50567       .52568       .97985       <	1.865	0.49838	45,6	0.51923	41,4	9.97916	4,2	0.02
.867       .49929       .52005       .97924       .0.0         .868       .49975       .52047       .97928       4,1       .0.0         .869       .59020       45,5       .52088       .97932       4,1       .0.0         .871       .50112       .52171       .97940       .0.0       .0.0       .0.0         .871       .50157       .52212       .97945       .0.0	.866	.49884						.02
.869       .50020       45.5       .52088       .97932       .02         1.870       0.50066       45.5       0.52130       41,4       9.97936       4,1       0.00         .871       .50112       .52171       .97940       .00         .872       .50157       .52212       .97945       .00         .873       .50203       .52254       .97940       .00         .874       .50248       .52295       .97953       .00         .874       .50294       45,5       0.52337       41,4       9.97957       4,1       0.00         .876       .50339       .52378       .97961       .00       .00       .00       .00       .00         .877       .50385       .52420       .97965       .00	.867			.52005	Programme Control	.97924		.02
1.870       0.50066       45,5       0.52130       41,4       9.97936       4,1       0.00         .871       .50112       .52171       .97945       .00         .872       .50157       .52212       .97945       .00         .873       .50203       .52254       .97949       .00         .874       .50248       .52295       .97953       .00         1.875       0.50294       45,5       0.52337       41,4       9.97957       4,1       0.0         .876       .50339       .52378       .97961       .00       .00         .877       .50385       .52420       .97965       .00         .877       .50385       .52461       .97969       .00         .878       .50430       .52461       .97969       .00         .879       .50476       .52503       .97977       4,0       0.0         .881       .50567       .52585       .97985       .00         .882       .50612       .52627       .97985       .00         .883       .50688       .52793       .9801       .00         .886       .50794       .52751       41,5       9.97997       4,0				.52047			4,1	.02
.871         .50112         .52171         .97940         .06           .872         .50157         .52212         .97945         .00           .873         .50203         .52254         .97949         .00           .874         .50248         .52295         .97953         .00           1.875         0.50294         .45.5         0.52337         .41,4         9.97957         .4,1         0.00           .876         .50339         .52378         .97961         .00         .00           .877         .50385         .52420         .97965         .00           .878         .50430         .52461         .97969         .00           .879         .50476         .52503         .97973         .00           .881         .50567         .52585         .97981         .00           .882         .50612         .52685         .97981         .00           .883         .50585         .52668         .97989         .00           .884         .50703         .52751         41,5         9.97997         4,0         0.0           .886         .50794         45,5         0.52751         41,5         9.97997         4,0	.869	.50020	45,5	.52088		.97932		.02
.871         .50112         .52171         .97940         .06           .872         .50157         .52212         .97945         .00           .873         .50203         .52254         .97949         .00           .874         .50248         .52295         .97953         .00           1.875         0.50294         .45.5         0.52337         .41,4         9.97957         .4,1         0.00           .876         .50339         .52378         .97961         .00         .00           .877         .50385         .52420         .97965         .00           .878         .50430         .52461         .97969         .00           .879         .50476         .52503         .97973         .00           .881         .50567         .52585         .97981         .00           .882         .50612         .52685         .97981         .00           .883         .50585         .52668         .97989         .00           .884         .50703         .52751         41,5         9.97997         4,0         0.0           .886         .50794         45,5         0.52751         41,5         9.97997         4,0	T.870	0.50066	ARE	0.52130	AT.A	0.07036	4.1	0.02
.872       .50157       .52212       .97945       .02         .873       .50203       .52254       .97949       .03         .874       .50248       .52295       .97953       .03         1.875       0.50294       .45.5       0.52337       .97961       .00         .876       .50339       .52378       .97961       .00         .877       .50385       .52420       .97965       .00         .878       .50430       .52461       .97969       .00         .879       .50476       .52503       .97973       .02         .881       .50567       .52585       .97981       .00         .882       .50612       .52627       .97985       .00         .883       .50658       .52668       .97989       .00         .884       .50703       .52710       .97993       .00         .885       .50648       .52793       .98091       .00         .887       .50840       .52793       .98005       .0         .887       .50840       .52834       .98005       .0         .887       .50840       .52896       .980013       .0         .891			4310	5 T 10 1 T 10 1 T 10 1 1 1	-7-1-7		-7,7-	.02
.873       .50203       .52254       .97949       .06         .874       .50248       .52295       .97953       .06         .874       .50248       .52295       .97953       .06         .875       0.50294       .45.5       0.52337       .41,4       9.97957       .4,1       0.06         .876       .50339       .52420       .97961       .07       .07       .07       .07         .878       .50430       .52461       .97969       .07								.02
.874       .50248       .52295       .97953       .02         I.875       0.50294       45,5       0.52337       41,4       9.97957       4,1       0.00         .876       .50339       .52378       .97961       .02         .877       .50385       .52420       .97965       .02         .878       .50430       .52461       .97969       .02         .879       .50476       .52503       .97973       .02         I.880       0.50521       45,5       0.52544       41,5       9.97977       4,0       0.02         .881       .50567       .52585       .97985       .02       .0	873							.02
.876       .50339       .52378       .97961       .06         .877       .50385       .52420       .97965       .02         .878       .50430       .52461       .97969       .02         .879       .50476       .52503       .97963       .02         .880       .50521       45,5       0.52544       41,5       9.97977       4,0       0.02         .881       .50567       .52584       41,5       9.97981       .02         .881       .50567       .52527       .97985       .02         .882       .50612       .52627       .97985       .02         .883       .5058       .52568       .97989       .02         .884       .50703       .52751       41,5       9.97997       4,0       0.0         .886       .50794       .45,5       0.52751       41,5       9.97997       4,0       0.0         .887       .50840       .52834       .98005       .0       .0         .888       .50885       .52876       .98005       .0         .889       .5021       .53000       .98013       .0         .890       .51067       45,4       .53042       <	.874							.02
.876       .50339       .52378       .97961       .06         .877       .50385       .52420       .97965       .00         .878       .50430       .52461       .97969       .00         .879       .50476       .52503       .97969       .00         .881       .50567       .52584       41,5       9.97977       4,0       0.00         .881       .50567       .52585       .97981       .00         .882       .50612       .52627       .97985       .00         .883       .50658       .52668       .97981       .00         .884       .50703       .52710       .97985       .00         .886       .50794       45,5       0.52751       41,5       9.97997       4,0       0.0         .886       .50794       45,5       0.52751       41,5       9.97997       4,0       0.0         .887       .50840       .52834       .98065       .0       .0         .888       .50885       .52876       .98001       .0         .890       .50931       .52917       .98013       .0         .892       .51067       45,4       .53042       .98021	1.875	0.50204	45.5	0.52337	41.4	0.07057	4,1	0.02
.877       .50385       .52420       .97965       .02         .878       .50430       .52401       .97969       .02         .879       .50476       .52503       .97969       .02         .879       .50476       .52503       .97969       .02         .881       .50567       .52585       .97981       .02         .882       .50612       .52627       .97985       .02         .883       .50658       .52668       .97989       .02         .884       .50703       .52751       41,5       9.97097       4,0       0.0         .885       .50794       45,5       0.52751       41,5       9.97097       4,0       0.0         .886       .50794       45,5       0.52751       41,5       9.97097       4,0       0.0         .887       .50840       .52733       .98001       .0       .0       .0       .0         .888       .50885       .52876       .98005       .0			10.0		5.340			.02
.878       .50430       .52401       .97969       .00         .879       .50476       .52503       .97973       .00         1.880       0.50521       45,5       0.52544       41,5       9.97977       4,0       0.00         .881       .50567       .52585       .97981       .00         .882       .50612       .52668       .97989       .00         .883       .50658       .52668       .97989       .00         .884       .50703       45,5       0.52751       41,5       9.97097       4,0       0.00         .886       .50794       45,5       0.52751       41,5       9.97097       4,0       0.00         .887       .50840       .52793       .98001       .0       .0         .889       .50931       .52793       .98005       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0       .0       .0       .0       .0       .0       .0       .0       .0       .0				.52420		97965		.02
1.880       0.50521       45,5       0.52544       41,5       9.97977       4,0       0.00         .881       .50567       .52585       .97981       .00         .882       .50612       .52668       .97985       .00         .883       .50658       .52668       .97989       .00         .884       .50703       .52751       41,5       9.97997       4,0       0.00         .886       .50794       45,5       0.52751       41,5       9.97997       4,0       0.00         .887       .50840       .52834       .98005       .0       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0       .0       .0       .0         .892       .51067       45,4       .53042       .98025       .0       .0         .893       .51158       .53125       .98033       .0       .0         .894       .51158       .53208 <td>.878</td> <td></td> <td></td> <td>.52461</td> <td></td> <td>.97969</td> <td>1</td> <td>.02</td>	.878			.52461		.97969	1	.02
.881       .50567       .52585       .97981       .02         .882       .50612       .52627       .97085       .02         .883       .50658       .52668       .97989       .02         .884       .50703       .52710       .97993       .02         1.885       0.50749       45,5       0.52751       41,5       9.97097       4,0       0.02         .886       .50794       .52793       .98001       .0<	.879	.50476		.52503		-97973		.02
.881       .50567       .52585       .97981       .02         .882       .50612       .52627       .97085       .02         .883       .50658       .52668       .97989       .02         .884       .50703       .52710       .97993       .02         .1885       0.50749       45,5       0.52751       41,5       9.97097       4,0       0.0         .886       .50794       .52793       .98001       .0 </td <td>1.880</td> <td>0.50521</td> <td>45,5</td> <td>0.52544</td> <td>41,5</td> <td>9.97977</td> <td>4,0</td> <td>0.02</td>	1.880	0.50521	45,5	0.52544	41,5	9.97977	4,0	0.02
.882       .50612       .52627       .97985       .0         .883       .50658       .52668       .97989       .0         .884       .50703       .52710       .97993       .0         1.885       0.50749       45.5       0.52751       41.5       9.97997       4,0       0.0         .886       .50794       .52793       .98001       .0         .887       .50840       .52834       .98055       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45.5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3.9       .0         .894       .51158       .53125       .98033       .0         .896       .51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51294       .532	.881					.97981		.02
.883	.882		ļ	.52627		.97985	receivants	.02
.884       .50703       .52710       .97993       .02         1.885       0.50749       45,5       0.52751       41,5       9.97997       4,0       0.00         .886       .50794       .52834       .98005       .0         .887       .50840       .52834       .98005       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53249       .98045       .0         .897       .51294       .53249       .98045       .0         .899       .51385       .53332				.52668		97989		.02
.886       .50794       .52793       .98001       .0         .887       .50840       .52834       .98065       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53322       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	.884	. 50703		.52710		97993		.02
.886       .50794       .52793       .98001       .0         .887       .50840       .52834       .98065       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53322       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	1.885	0.50749	45,5	0.52751	41,5	9.97997	4,0	0.02
.887       .50840       .52834       .98055       .0         .888       .50885       .52876       .98009       .0         .889       .50931       .52917       .98013       .0         I.890       0.50976       45.5       0.52959       41.5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0         .892       .51067       45.4       .53042       .98025       .0         .893       .51112       .53083       .98029       3.9       .0         .894       .51158       .53125       .98033       .0         I.895       0.51203       45.4       0.53166       41.5       9.98037       3.9       0.0         .896       .51249       .53208       .98041       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         I.900       0.51430       45.4       0.53374       41.5       9.98057       3.9       0.0	.886					.98001		.01
.889       .50931       .52917       .98013       .0         1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53000       .98021       .0 <td< td=""><td>.887</td><td>.50840</td><td>in the class</td><td>52834</td><td></td><td></td><td></td><td>.01</td></td<>	.887	.50840	in the class	52834				.01
1.890       0.50976       45,5       0.52959       41,5       9.98017       4,0       0.0         .891       .51021       .53002       .98021       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	.888		35342			.98009		.01
.891       .51021       .53000       .98021       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	.889	.50931		.52917		.98013		.01
.891       .51021       .53000       .98021       .0         .892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0		0.50976	45,5		41,5		4,0	0.01
.892       .51067       45,4       .53042       .98025       .0         .893       .51112       .53083       .98029       3,9       .0         .894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	.89т	.51021		.53000		.98021		.01
.894       .51158       .53125       .98033       .0         1.895       0.51203       45,4       0.53166       41,5       9.98037       3,9       0.0         .896       .51249       .53208       .98041       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0	.892		45,4	-53042	1	.98025		.01
1.895     0.51203     45,4     0.53166     41,5     9.98037     3,9     0.0       .896     .51249     .53208     .98041     .0       .897     .51294     .53249     .98045     .0       .898     .51340     .53291     .98049     .0       .899     .51385     .53332     .98053     .0       1.900     0.51430     45,4     0.53374     41,5     9.98057     3,9     0.0	.893						3,9	.01
.896       .51249       .53208       .98041       .0         .897       .51294       .53249       .98045       .0         .898       .51340       .53291       .98049       .0         .899       .51385       .53332       .98053       .0         1.900       0.51430       45,4       0.53374       41,5       9.98057       3,9       0.0		.51158	l					
.897     .51294     .53249     .98045     .0       .898     .51340     .53291     .98049     .0       .899     .51385     .53332     .98053     .0       1.900     0.51430     45,4     0.53374     41,5     9.98057     3,9     0.0			45,4		41,5	9.98037	3,9	
.898     .51340     .53291     .98049     .0       .899     .51385     .53332     .98053     .0       1.900     0.51430     45,4     0.53374     41,5     9.98057     3,9     0.0								
.899     .51385     .53332     .98053     .0       1.900     0.51430     45,4     0.53374     41,5     9.98057     3,9     0.0					1			
1.900 0.51430 45,4 0.53374 41,5 9.98057 3,9 0.0							1.	.0
			AS.A	1	.an. ₹	1	3.0	1.5
u log tangdu w Fo′ log sec gdu w Fo′ log sin gdu w Fo′ log csc	944						ω F <sub>0</sub> *	log csc

		Logarit	hms of Hy	perbolic	Functions.	Pagusagi sung propinsi peneru Janggan Pagusagi sung peneru	ga afternefigi en stant forma
u	log sinh u	ω F <sub>0</sub> ′.	log cosh u	ω Fo′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.900 .901 .902 .903	0.51430 .51476 .51521 .51567 .51612	45,4	0.53374 .53415 .53457 .53498 .53540	41,5	9.98057 .98060 .98064 .98068 .98072	3,9	0.01943 .01940 .01936 .01932
.905 .906 .907 .908	0.51657 .51703 .51748 .51794 .51839	45,4	0.53581 .53623 .53665 .53706 .53748	41,5 41,6	9.98076 .98080 .98084 .98087 .98091	3,8	0.01922 .01920 .01910 .01913
1.910 .911 .912 .913	0.51884 .51930 .51975 .52020 .52066	45,4	0.53789 .53831 .53872 .53914 .53956	41,6	9.98095 .98099 .98103 .98106	3,8	0.0190. 0.0190. 01892. 01890.
1.915 .916 .917 .918	0.52111 .52157 .52202 .52247 .52293	45,4 45,3	0.53997 .54039 .54080 .54122 .54164	41,6	9.98114 .98118 .98122 .98125 .98129	3,8	0.01883 .01882 .01873 .01873
1.920 .921 .922 .923 .924	0.52338 .52383 .52429 .52474 .52519	45,3	0.54205 .54247 .54288 .54330 .54372	41,6	9.98133 .98137 .98140 .98144 .98148	3,7	0.0186; .0186; .01866 .01856
1.925 .926 .927 .928 .929	0.52565 .52610 .52655 .52700 .52746	45,3	0.54413 ·54455 ·54496 ·54538 ·54580	41,6	9.98151 .98155 .98159 .98162 .98166	3,7	0.01849 .01849 .0184 .01838
1.930 .931 .932 .933 .934	0.52791 .52836 .52882 .52927 .52972	45,3	0.54621 .54663 .54705 .54746 .54783	41,6 41,7	9.98170 .98173 .98177 .98181 .98184	3,7 3,6	0.01830 .0182; .0182; .01810
1.935 .936 .937 .938	0.53018 .53063 .53108 .53153 .53199	45,3	0.54830 .54871 .54913 .54955 .54996	41,7	9.98188 .98192 .98195 .98199 .98202	3,6	0.01812 .01808 .01809 .0180
1.940 .941 .942 .943 .944	0.53244 .53289 .53334 .53380 .53425	45,3 45,2	0.55038 .55080 .55121 .55163 .55205	41,7	9.98206 .98210 .98213 .98217 .98220	<b>3,6</b>	0.0179 .0179 .0178 .0178 .0178
1.945 .946 .947 .948 .949	0.53470 .53515 .53561 .53606 .53651	45,2	0.55246 .55288 .55330 .55371 .55413	41,7	9.98224 .98227 .98231 .98235 .98238	3,6 3,5	0.01776 .0176 .0176 .0176
1.950	0.53696	45,2	0.55455	41,7	9.98242	3,5	0.0175
ш.	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log ese gd i

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
1.950 .951 .952 .953 .954	0.53696 .53742 .53787 .53832 .53877	45,2	0.55455 .55496 .55538 .55580 .55622	41,7	9.98242 .98245 .98249 .98252 .98256	3,5	0.01758 .01755 .01751 .01748 .01744
1.955 .956 .957 .958 .959	0.53922 .53968 .54013 .54058 .54103	45,2	0.55663 .55705 .55747 .55788 .55830	41,7	9.98259 .98263 .98266 .98269 .98273	3,5	0.01741 .01737 .01734 .01731 .01727
1.960 .961 .962 .963 .954	0.54148 .54194 .54239 .54284 .54329	45,2	0.55872 .55914 .55955 .55997 .56039	41,7	9.98276 .98280 .98283 .98287 .98290	3,4	0.01724 .01720 .01717 .01713 .01710
1.965 .966 .967 .968 .969	0.54374 .54419 .54465 .54510 .54555	45,2	0.56081 .56122 .56164 .56206 .56248	41,8	9.98294 .98297 .98300 .98304 .98307	3,4	0.01706 .01703 .01700 .01696 .01693
1.970 .971 .972 .973 .974	0.54600 .54645 .54690 .54736 .54781	45,2 45,1	0.56290 .56331 .56373 .56415 .56457	41,8	9.98311 .98314 .98317 .98321 .98324	3,4	0.01689 .01686 .01683 .01679 .01676
1.975 .976 .977 .978 .979	0.54826 .54871 .54916 .54961 .55006	45,1	0.56498 .56540 .56582 .56624 .56666	41,8	9.98327 .98331 .98334 .98337 .98341	3,3	0.01673 .01669 .01666 .01663 .01659
1.980 .981 .982 .983 .984	0.55051 .55097 .55142 .55187 .55232	45,1	0.56707 .56749 .56791 .56833 .56875	41,8	9.98344 .98347 .98351 .98354 .98357	3,3	0.01656 .01653 .01649 .01646 .01643
1.985 .986 .987 .988 .989	0.55277 •55322 •55367 •55412 •55457	45,1	0,56916 .56958 .57000 .57042 .57084	41,8	9.98360 .98364 .98367 .98370 .98374	3,3	0.01640 .01636 .01633 .01630 .01626
1.990 .991 .992 .993 .994	0.55502 ·55547 ·55593 ·55638 ·55683	45,1	0.57126 .57167 .57209 .57251 .57293	41,8	9.98377 .98380 .98383 .98387 .98390	3,2	0.01623 .01620 .01617 .01613 .01610
1.995 .996 .997 .998 .999	0.55728 .55773 .55818 .55863 .55908	45,1	0.57335 .57377 .57419 .57460	41,9	9.98393 .98396 .98399 .98403 .98406	3,2	0.01607 .01604 .01601 .01597 .01594
2.000 u	0.55953	45,0 ω F <sub>0</sub> ′	0.57544 log sec gd u	41,9 ω F <sub>0</sub> '	9.98409 log sin gd u	3,2 ω F <sub>0</sub> '	O.OI59I log csc gd u

SMITHSONIAN TABLES

		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			N. 15 (Bladelin Br		1
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.000 .001 .002 .003 .004	0.55953 .55998 .56043 .56088 .56133	45,0	0.57544 .57586 .57628 .57670 .57712	41,9	9.98409 .98412 .98415 .98418 .98422	3,2	0.01591 .01588 .01585 .01582 .01578
2.005 .006 .007 .008 .009	0.56178 .56223 .56268 .56313 .56358	45,0	0.57754 .57795 .57837 .57879 .57921	41,9	9.98425 .98428 .98431 .98434 .98437	3,2 3,1	0.01575 .01572 .01569 .01566 .01563
2.010 .011 .012 .013 .014	0.56403 .56448 .56493 .56538 .56583	45,0	0.57963 .58005 .58047 .58089 .58131	41,9	9.98440 .98444 .98447 .98450 .98453	3,1	0.01560 .01556 .01553 .01550 .01547
2.015 .016 .017 .018 .019	0.56628 .56673 .56718 .56723 .56808	45,0	0.58172 .58214 .58256 .58298 .58340	41,9	9.98456 .98459 .98462 .98465 .98468	3,1	0.01544 .01541 .01538 .01535
2.020 .021 .022 .023 .024	0.56853 .56898 .56943 .56988 .57033	45,0	0.58382 .58424 .58466 .58508 .58550	41,9	9.98471 .98474 .98477 .98480 .98484	3,1 3,0	0.01529 .01526 .01523 .01520 .01516
2.025 .026 .027 .028 .029	0.57078 .57123 .57168 .57213 .57258	45,0	0.58592 .58634 .58676 .58718 .58760	41,9 42,0	9.98487 .98490 .98493 .98496 .98499	3,0	0.01513 .01510 .01507 .01504 .01501
2.030 .031 .032 .033 .034	0.57303 .57348 .57393 .57438 .57483	45,0 44,9	6.58862 .58843 .58885 .58927 .58969	42,0	9.98502 .98505 .98508 .98511	3,0	0.01498 .01495 .01492 .01489
2.035 .036 .037 .038 .039	0.57528 .57573 .57618 .57663 .57708	44,9	0.59011 .59053 .59095 .59137 .59179	42,0	9.98517 .98519 .98522 .98525 .98528	3,0 2,9	0.01483 .01481 .01478 .01475
2.040 .041 .042 .043 .044	0.57753 .57797 .57842 .57887 .57932	44.9	0.59221 .59263 .59305 .59347 .59389	42,0	9.98531 .98534 .98537 .98540 .98543	2,9	0.01469 .01466 .01463 .01460 .01457
2.045 .046 .047 .048	0.57977 .58022 .58067 .58112 .58157	44,9	0.59431 ·59473 ·59515 ·59557 ·59599	42,0	9.98546 .98549 .98552 .98555 .98558	2,9	0.01454 .01451 .01448 .01445
2.050	0.58202	44.9	0.59641	42,0	9.98560	2,9	0.01440
u	log tan gd u.	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

		edelario e electrico de la constanta		A CONTRACTOR	A STATE OF THE PARTY OF THE PAR		CONTRACTOR OF THE PARTY OF THE
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.050	0.58202	44,9	0.59641	42,0	9.98560	2,9	0.01440
.051	. 58246	·	.59683	rel Richidese	.98563		.01437
.052	.58291		.59725		.98566		.01434
.053	. 58336		.59767	transfer out and	.98569		.01431
.054	.58381		.59809	10 % 10 % 10 % 10 % 10 % 10 % 10 % 10 %	.98572		.01428
2.055	0.58426	44,9	0.59851	42,0	9.98575	2,9	0.01425
.056	.58471		.59893		.98578	2,8	.01422
.057	.58516		•59935		.98580		.01420
.058	.58561	141	•59977		.98583		.01417
.059	.58606	toda t	.60019		.98586		.01414
2.060	0.58650	44,9	0.60061	42,0	9.98589	2,8	0.01411
.061	. 58695		.60104		.98592		.01408
.062	.58740	100	.60146	1	.98595		.01405
.063	. 58785		.60188		.98597		.01403
.064	.58830	4.	.60230	42,1	.98600		.01400
2.065	0.58875	44,8	0.60272	42,1	9.98603	2,8	0.01397
.066	.58920		.60314		.98606		.01394
.067	. 58964		.60356		.98600		.01391
.068	.59009		.60398		.98611	1	.01389
.069	-59054		.60440		.98614		.01386
2.070	0.59099	44,8	0.60482	42,1	9.98617	2,8	0.01383
.071	.59144		.60524		.98620	408	.01380
.072	.59189		.60566	· .	.98622	100.2	.01378
.073	.59233		.60608		.98625		.01375
.074	.59278		.60650	7 %	.98628	2,7	.01372
2.075	0.59323	44,8	0.60692	42,1	9.98631	2,7	0.01369
.076	.59368		.60734		.98633		.01367
.077	-59413	1	.60777	٠.	.98636		.01364
.078	•59457		.60819		.98639		.01361
.079	.59502	el d'aller esta L'aller	.60861	-	.98642		.01358
2.080	0.59547	44,8	0.60903	42,1	9.98644	2,7	0.01356
.081	.59592		.60945	'	.98647		.01353
.082	59637		.60987		.98650		.01350
.083	.59681		.61029		.98652		.01348
.084	.59726		.61071		.98655		.01345
2.085	0.59771	44,8	0.61113	42,1	9.98658	2,7	0.01342
.086	.59816		.61155		.98660		.01340
.087	.59861		.61198		.98663	5	.01337
.088	.59905		.61240		.98666		.01334
.089	. 59950	1000	.61282		.98668		.01332
2.090	0.59995	44,8	0.61324	42,1	9.98671	2,7	0.01329
.091	.60040		.61366		.98674		.01326
.092	.60085	1 2 2	.61408		.98676	2,6	.01324
.093	.60129		.61450		.98679	٠.	.01321
.094	.60174		.61492		.98682		.01318
2.005	0.60219	44,8	0.61535	42,1	9.98684	2,6	0.01316
.096	60264	Sugar	.61577		98687		.01313
.097	.60308		.61619		.98690		.01310
.098	.60353 .60398	100	.61661 .61703		.98692 .98695		.01308
2.100	0.60443	44,8	0.61745	42,1	9.98697	2,6	0.01303
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
<u> </u>							- and and and a

и	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
<u> </u>		حننك تعنيه			<u> </u>	<del>ئىسىنىنىڭ</del>	<del></del>
2.100	0.60443 .60487	44,8	<b>0.</b> 61745 .61787	42,1	9.98697 .98700	2,6	0.01303
.101	.60532	44,7	.61830	42,2	.98703		.01300
103	.60577		.61872	42,2	.98705		.01295
.104	60622	think M	.61914		.98708	. •	.01292
2.105	0.60666	44.7	0.61956	42,2	9.98710	2,6	0.01290
.106	.60711	407	.61998	-,-	08713	_,	.01287
.107	.60756		.62040		.98716		.01284
.108	.60801		.62083		.98718		.01282
.109	.60845	No. 1 House of	.62125		.98721		.01279
2.110	0.66890	44,7	0.62167	42,2	9.98723	2,6	0.01277
111.	.60935		.62209		.98726	2,5	.01274
.112	.60979	1.4	62251		.98728		.01272
.113	.61024 .61069		.62293 .62336		.98731 .98733		.01269
.114	.01009	•					.01207
2.115 .116	0.61114 .61158	44.7	0.62378 .62420	42,2	9.98736 .98738	2,5	0.01264
.117	.61158	4	.62462		.98741	·	.01202
811.	.61248		.62504		.98743		.01257
.119	.61292		.62546		.98746		.01254
2.120	o.61337	44.7	0.62589	42,2	9.98748	2,5	0.01252
.121	.61382		.62631	• •	.98751	,,	.01249
.122	.61427		.62673		.98753		.01247
.123	.61471		.62715		.98756		.01244
.124	.61516		.62757		.98758		.01242
2.125	0.61561	44.7	0.62800	42,2	9.98761	2,5	0.01239
.126	.61605		.62842		.98763		.01237
.127	.6165 <b>0</b>	-	.62884 .62926		.98766 .98768		01234
.128	.6169 <b>5</b> .6173 <b>9</b>		.62969		.98771		.01232
2.130	0.61784	44,7	0.63011	42,2	9.98773	2,5	0.01227
.131	.61829		.63053 .63095		.98776 .98778	2,4	.01224
.132	.61873 .61918		.63137		.98781		.01222 .01219
.134	.61963		.63180		.98783		.01217
		· · · · · · · · · · · · · · · · · · ·		لدندم			
2.135	0.62007 .62052	44,7	0.63222 .63264	42,2	9.98785 .98788	2,4	0.01215
.136	.62052		.63204		.98790		.01212
.138	.62141		.63349		.98793		.01207
.139	.62186		.63391		.98795		.01205
2.140	0.62231	44,6	0.63433	42,2	9.98798	2,4	0.01202
.141	.62275		.63475		.98800		.01200
.142	.62320		.63518		.98802		.01198
.143	.62365		.63560	42,3	.98805		.01195
.144	.62409		.63602		.98807		.01193
2.145	0.62454 .62498	44,6	0.63644 .63687	42,3	9.98810 .98812	2,4	0.01190
.146	.62543		.63729		.98814		.01186
.148	.62588		.63729		.98817		.01183
.149	.62632		.63813		.98819		.01181
2.150	0.62677	44,6	0.63856	42,3	9.98821	2,4	0.01179
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gđ u	ω F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.150 .151 .152 .153 .154	0.62677 .62722 .62766 .62811 .62855	44,6	0.63856 .63898 .63940 .63982 .64025	42,3	9.98821 .98824 .98826 .98828 .98831	2,4 2,3	0.01179 .01176 .01174 .01172 .01169
2.155 .156 .157 .158 .159	0.62900 .62945 .62989 .63034 .63079	44,6	0.64067 .64109 .64152 .64194 .64236	42,3	9.98833 .98835 .98838 .98840 .98842	2,3	0.01167 .01165 .01162 .01160 .01158
2.160 .161 .162 .163 .164	0.63123 .63168 .63212 .63257 .63302	44,6	0.64278 .64321 .64363 .64405 .64448	42,3	9.98845 .98847 .98849 .98852 .98854	2,3	0.01155 .01153 .01151 .01148 .01146
2.165 .166 .167 .168 .169	0.63346 .63391 .63435 .63480 .63524	44,6	0.64490 .64532 .64574 .64617 .64659	42,3	9.98856 .98859 .98861 .98863	2,3	0.01144 .01141 .01139 .01137 .01135
2.170 .171 .172 .173 .174	0.63569 .63614 .63658 .63703 .63747	44,6	0.64701 .64744 .64786 .64828 .64871	42,3	9.98868 .98870 .98872 .98874 .98877	2,3 2,2	0.01132 .01130 .01128 .01126 .01123
2.175 .176 .177 .178 .179	0.63792 .63836 .63881 .63926 .63970	44,6	0.64913 .64955 .64998 .65040 .65082	42,3	9.98879 .98881 .98883 .98886 .98888	2,2	0.01121 .01119 .01117 .01114 .01112
2.180 .181 .182 .183 .184	0.64015 .64059 .64104 .64148	44,6 44,5	0.65125 .65167 .65209 .65252 .65294	42,3	9.98890 .98892 .98894 .98897	2,2	0.01110 80110, 60110. 20110. 10110.
2.185 .186 .187 .188 .189	0.64237 .64282 .64326 .64371 .64416	44.5	0.65336 .65379 .65421 .65463 .65506	42,3 42,4	9.98901 .98903 .98905 .98908 .98910	2,2	0.01099 .01097 .01095 .01092 .01090
2.190 .191 .192 .193 .194	0.64460 .64505 .64549 .64594 .64638	44.5	0.65548 .65590 .65633 .65675	42,4	9.98912 .98914 .98916 .98919 .98921	2,2	0.01088 .01086 .01084 .01081 ,01079
2.195 .196 .197 .198 .199	0.64683 .64727 .64772 .64816 .64861	44.5	0.65760 .65802 .65845 .65887 .65929	42,4	9.98923 .98925 .98927 .98929 .98931	2,2 2,1	0.01077 .01075 .01073 .01071 .01069
2.200	0.64905	44,5	0.65972	42,4	9.98934	2,1	0.01066
u u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.200	0.64905	44,5	0.65972	42,4	9.98934	2,1	0.01066
.201	.64950		.66014	1	.98936		.0106
.202	.64994		.66056	}	98938		.01062
.203	.65039		.66099	ŀ	.98940	į	.0106
			.66141		190940		
.204	.65083		.00141		.98942		.0105
2.205	0.65128	44,5	0.66184	42,4	9.98944	2,1	0.01056
.200	.65172	ļ	.66226		98946	į	.01054
.207	.65217		.66268		98948		.01052
.208	.65261	ł	.66311	}	.98950	1	01050
.209	.65306		.66353		.98953		.0104
2.210	0.65350	44,5	0.66396	42,4	9.98955	2,1	0.0104
.211	.65395	1470	.66438	1 -,-	98957	_,_	.0104
.212	.65439	and comments to the	66480	•	98959		.0104
.213	.65484		.66523		.98961		
_			66565			1	.0103
.214	.65528		.00505		.98963		.0103
2.215	0.65573	44,5	0.66608	42,4	9.98965	2,1	0.0103
.216	.65617		.66650		.98967		.0103
.217	.65662		.66692		.98969		.0103
.218	.65706		.66735		.98971	1	.01020
.219	.65751		.66777		.98973		.0102
2.220	0.65795	44,5	0.66820	42,4	9.98975	2,0	0.0102
.221	.65840	77,5	66862	7-,-	.98977	_,	.0102
.222	.65884		.66905		.98979		.0102
			.66947				
.223	.65928				.98982		.01018
.224	.65973		.66989		.98984		.01010
2.225	0.66017	44,5	0.67032	42,4	9.98986	2,0	0.01012
.226	.66062		67074		.98988		.0101
.227	.66106		.67117	15%	.98990	Laurent de la colonia	.01010
.228	.66151	44,4	.67159		.98992	CELOPARAGES	.01008
.229	.66195		.67202		•98994		.01000
2.230	0.66240	44,4	0.67244	42,4	9.98996	2,0	0.01004
.231	.66284	777	67286	4	.98998	_,_	.0100
.232	.66328		.67329		.99000		.0100
			67271			-	
.233	.66373		.67371		.99002		.00998
.234	.66417		.67414		.99004		.0099
2.235	0.66462	44,4	0.67456	42,4	9.99006	2,0	0.0099
.236	.66506		.67499		99008		.0099
.237	.66551		.67541	42,5	.99010		.0099
.238	.66595		.67583		99012		.0098
.239	.66640		.67625		.99014		.0098
2.240	0.66684	44,4	0.67668	42,5	9.99016	2,0	0.0098
.241	.66728	-4-43-4	.67711	4~,5	.99018		.0098
		:					
.242	.66773		67753		.99019		.0098
.243	.66817		.67796		.99021	]	.00979
.244	.66862	,	.67838		.99023		.0097
2.245	0.66906	44,4	0.67881	42,5	9.99025	1,9	0.0097
.246	.66950		.67923		.99027		.0097
.247	.66995		.67966		.99029	)	.0097
.248	.67039		.68008		.99031	-	.00969
.249	67084		.68051		.99033		.0096
2.250	0.67128	44,4	0.68093	42,5	9.99035	1,9	0.0096
	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd

Logarithms of Hyperbolic Functions.

u	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.250	0.67128	44,4	0.68093	42,5	9.99035	1,9	0.00965
.251	.67173	Table 11 Charles 12	.68136		•99037		.00963
.252	.67217		.68178		.99039		.00961
.253	.67261		.68220		.99041	1 1 1 L.	.00959
.254	.67306		.68263		.99043		.00957
2.255	0.67350	44,4	0.68305	42,5	9.99045	1,9	0.00955
.256	.67394		.68348		. 99047		.00953
.257	.67439	\$4. Aliman	.68390		99048		.00952
.258	.67483		.68433		.99050		.00950
.259	.67528		.68475		.99052	.	.00948
2.260	0.67572	44,4	0.68518	42,5	9.99054	1,9	0.00946
.261	.67616		.68560		.99056		.00944
.262	.67661		.68603		.99058		.00942
.263	.67705		.68645		.99060		.00940
.264	.67750		.68688		.99062		.00938
2.265	0.67794	44,4	0.68730	42,5	9.99064	1,9	0.00936
.266	.67838	Late agree y	.68773 .68815		.99065		.00935
.267	.67883		.68815		.99067		.00933
.268	.67927		.68858		.99069		.00931
.269	.67971		.68900		.99071		.00929
2.270	0.68016	44,4	0.68943	42,5	9.99073	1,9	0.00927
.271	.68060	44	.68985		.99075		.00925
.272	.68105		.69028		.99077	1,8	.00923
.273	.68149		.69070		.99078		.00922
.274	.68193		.69113		.99080		.00920
2.275	0.68238	44,4	0.69156	42,5	9.99082	1,8	0.00918
.276	.68282		.69198	,	.99084		.00916
.277	.68326		.69241	l	.99086		.00914
.278	.68371		.69283		.99088		.00912
.279	.68415	44,3	.69326		.99089		.00911
2.280	0.68459	44,3	0.69368	42,5	9.99091	1,8	0.00909
.281	,68504		.69411		.99093	1 11	.00907
.282	.68548	1.5	.69453		.99095		.00905
.283	.68592		.69496	ļ	.99097		.00903
.284	.68637	1. 1.	.69538	1	.99098		.00902
2.285	0.68681	44,3	0.69581	42,5	9.99100	1,8	0.00900
.286	.68725		.69623		.99102	1	.00898
.287	.68770		69666	1	.99104		.00896
.288	.68814	1	.69708		.99106		.00894
.289	.68858		.69751		.99107		.00893
2.290	0.68903	44,3	0.69794	42,5	9.99109	1,8	0.00891
.291	.68947		.60836		.99111	1	.00889
.292	.68991	1	.69879	42,6	.99113	1	.00887
.293	.69036		.69921	'	.99115		.00885
.294	.69080	1.	.69964	1	.99116		.00884
2.295	0.69124	44,3	0.70006	42,6	9.99118	1,8	0.00882
.296	.69169		.70049		.99120	1	.00880
.297	.69213		.70091		.99122	1	.00878
.298	.69257		.70134		.99123		.00877
.299	.69302		.70177		.99125	1,7	.00875
2.300	0.69346	44,3	0.70219	42,6	9.99127	1,7	0.00873
и	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
	0.69346		7	42,6	0.00747		0.00074
300	.69390	44,3	0.70219 .70262	42,0	9.99127	1,7	0.00873
.301	6042			l	.99129		
302	.69435		70304		.99130		.00870
.303	.69479 .69523		.70347		.99132 .99134		.00868 .00866
.305	0.69568	44,3	0.70432	42,6	9.99136	1,7	0.00864
.305	.69612	4500	70475		99137	777	.00863
.307	.69656	•	.70517		99139		.00861
.308	.69700		.7056o		99141	1.0	.00859
.309	.69745		.70602		99142		.00858
.310	0.69789	44,3	0.70645	42,6	9.99144	1,7	0.00856
.311	.69833		.70687		.99146		.00854
.312	.69878		.70730		.99148		.00852
.313	.69922		.70773		.99149		.00851
.314	.69966		.70815		.99151		.00849
.315	0.70010	44,3	0.70858	42,6	9.99153	1,7	0.00847
.316	.70055		.70900		.99154		.00846
·317	70099		•70943		.99156		.00844
.318	.70143		70986		.99158		.00842
.319	.70188		.71028		.99159		.00841
.320	0.70232	44,3	0.71071	42,6	9.99161	1,7	0.00839
.321	.70276		.71113		.99163		.00837
.322	70320		.71156		.99164		.00836
.323	.70365		.71199		.99166		.00834
.324	.70409		.71241		.99168		.00832
.325	0.70453	44,3	0.71284	42,6	9.99169	1,7	0.00831
.326	.70497		.71326		.99171		.00829
.327	.70542		.71369		•99173		.00827
.328	.70586		.71412		.99174	_	.00826
.329	.70630		.71454		<b>.</b> 991 <i>7</i> 6	1,6	.00824
. 330	0.70675	44,3	0.71497	42,6	9.99178	1,6	0.00822
.331	.70719		•71539		.99179		.00821
.332	.70763		.71582		.99181		• • • • • • • • • • • • • • • • • • • •
-333	.70807		.71625		.99183		.00817
•334	.70852		.71667		.99184		.00816
335	0.70896	44,3	0.71710	42,6	9.99186	1,6	0.00814
.336	.70940	44,2	.71753		.99188		.00812
•337	70984		71795		.99189		.00811
338	.71029		.71838 .71880		.99191		.00809
•339	.71073		./1000		.99192		80800.
.340	0.71117	44,2	0.71923	42,6	9.99194	1,6	0.00806
.341	.71161		.71966		.99196		.00804
.342	.71206		7.2008		.99197		.00803
•343	.71250		.72051		.99199		.00801
•344	.71294		<b>,720</b> 94		.99200		.00800
.345	0.71338	44,2	0.72136	42,6	9.99202	1,6	0.00798
.346	.71382		.72179		.99204		.00796
•347	.71427		.7222I		.99205		.00795
.348	.71471		.72264		.99207		.00793
•349	•71515		.72307		.99208		.00792
2.350	0.71559	44,2	0.72349	42,6	9.99210	1,6	0.00790
			1			Parameter of America	log csc gd u

Ų	log sinh u	ω <b>F</b> <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.350 .351 .352 .353 .354	0.71559 .71604 .71648 .71692 .71736	44,2	0.72349 .72392 .72435 .72477 .72520	42,6 42,7	9,99210 .99212 .99213 .99215 .99216	1,6	0.00790 .00788 .00787 .00785
2.355 .356 .357 .358 .359	0.71781 .71825 .71869 .71913 .71957	44,2	0,72563 .72605 .72648 .72691 .72733	42,7	9.99218 .99219 .99221 .99223 .99224	1,6	0.00782 .00781 .00779 .00777
2.360 .361 .362 .363 .364	0.72002 .72046 .72090 .72134 .72178	44,2	0.72776 .72819 .72851 .72904 .72947	42,7	9.99226 .99227 .99229 .99230 .99232	1,5	0.00774 .00773 .00771 .00770 .00768
2.365 .366 .367 .368 .369	0.72223 .72267 .72311 .72355 .72399	44.2	0.72989 .73032 .73075 .73117 .73160	42,7	9.99233 .99235 .99236 .99238 .99239	1,5	0.00767 .00765 .00764 .00762 .00761
2.370 .371 .372 .373 .374	0.72444 .72488 .72532 .72576 .72620	44,2	0.73203 .73245 .73288 .73331 .73373	42.7	9.99241 .99242 .99244 .99245 .99247	1,5	0.00759 .00758 .00756 .00755 .00753
2·375 ·376 ·377 ·378 ·379	0.72665 .72709 .72753 .72797 .72841	44,2	0,73416 •73459 •73501 •73544 •73587	42,7	9.99249 .99250 .99252 .99253 .99254	1,5	0.00751 .00750 .00748 .00747 .00746
2.380 .381 .382 .383 .384	0.72885 .72930 .72974 .73018 .73062	44.2	0.73630 .73672 .73715 .73758 .73800	42,7	9.99256 .99257 .99259 .99260 .99262	1,5	0.00744 .00743 .00741 .00740 .00738
2.385 .386 .387 .388 .389	0.73106 .73151 .73195 .73239 .73283	44,2	0,73843 .73886 .73928 .73971 .74014	42,7	9.99263 .99265 .99266 .99268 .99269	1,5	0.00737 .00735 .00734 .00732
2.390 .391 .392 .393 .394	0.73327 .73371 .73416 .73460 .73504	44,2	0.74056 .74099 .74142 .74185 .74227	42,7	9.99271 .99272 .99274 .99275 .99277	1,5	0.00729 .00728 .00726 .00725 .00723
2·395 .396 ·397 .398 ·399	0.73548 .73592 .73636 .73680 .73725	44,2	0,74270 .74313 .74355 .74398 .74441	<b>42,</b> 7	9.99278 •99279 •99281 •99282 •99284	1,4	0.00722 .00721 .00719 .00718 .00716
2.400	0.73769	44,2	0.74484	42,7	9.99285	1,4	0.00715
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω.F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

	and the state of		Logarit	hms of Hy	perbolic		Alexander (1986)	
	u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> '	log tanh u	ω F <sub>0</sub> ′	log coth u
14-14 14-14-14 14-14-15-15	2,400	0.73769	44,2	0.74484	42,7	9.99285	1,4	0.00715
	.401	.73813	44,I	.74526		.99287		.00713
	.402	.73857		.74569		.99288		.00712
- ad-	.403	73901		.74612 .74655		.99289		.00711
	.404	•73945		•/4033		.99291		.00709
Target and the second	2.405	0.73990	44,I	0.74697	42,7	9.99292	1,4	0.00708
The state of the s	.406	.74034		.74740		.99294		.00706
wyrdw charles	.407	.74078		•747 <sup>8</sup> 3		.99295		.00705
Apple Colors	.408	.74122		.74825 .74868		99297		.00703
1 A A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	,409	.74166		.74600		.99298		.00702
	2.410	0.74210	44,1	0.74911	42,7	9.99299	1,4	0.00701
Action Control	.411	•74254		•74954		.99301		.00699
	.412	.74298		·74996		99302		.00698
Guerran . 270	.413	•74343		.75039		.99304		.00696
Alama and	.414	.74387		.75082		.99305		.00695
	2.415	0.74431	41,1	0.75125	42,7	9.99306	1,4	0.00694
NUMBER OF	.416	•74475		.75167		.99308		.00692
- 2-, -,-,-,-	.417	.74519		.75210		.99309		.00691
	.418	.74563		•75253		.99310		.00690
Salati	.419	74607		.75296		.99312		.00688
24 P	2.420	0.74652	44,1	0.75338	42,7	9.99313	1,4	0.00687
promise gra	.421	.74696	•,•	.75381	-17	.99315	,	.00685
28 males a	.422	.74740		.75424	42,8	.99316		.00684
	.423	.74784		.75467		.99317		.00683
provides or	.424	.74828	,	.75509		.99319	Y	.00681
	2.425	0.74872	44,1	0.75552	42,8	9.99320	I,4	0.00680
4.54	.426	.74916		·75595	' '	.99321	• •	.00679
ffe to h	.427	.74960		.75638		.99323		.00677
6.000	.428	.75004		.75680		•99324		.00676
100 mm m m	.429	.75049		•75723		.99325	1,3	.00675
44,7%	2.430	0.75093	44,1	0.75766	42,8	9.99327	. 1,3	0.00673
	.431	.75137		.75809		.99328		.00672
	.432	.75181		.75851		.99329		.00671
10-6	•433	.75225		75894		.99331		.00669 .00668
F-10-10	•434	.75269		•75937		•99332		.00008
15-15-15-15-15-15-15-15-15-15-15-15-15-1	2.435	0.75313	44,I	0.75980	42,8	9.99333	1,3	0.00667
Jak, vil.	.436	•75357		.76022	• 1	•99335	.5	.00665
1.00	•437	.75401		.76065		.99336		.00664
	.438	.75445		.76108		•99337		.00663
2.4	•439	75490		.76151		•99339		.00661
g à	2.440	0.75534	44,1	<b>0.7</b> 6194	42,8	9.99340	1,3	0.00660
5 A	.441	.75578	• ••	.76236	'	.99341	, ,	.00659
	.442	.75622		.76279		•99343		.00657
340	•443	. 75666		.76322		•99344		.00656
\$755 4.60%	•444	.75710		.76365		99345		.00655
12/40	2.445	0.75754	44,1	0.76407	42,8	9.99347	1,3	0.00653
	.446	.75798		.76450	1-1-	.99348	-,0	.00652
	•447	.75842		.76493		•99349		.00651
11.77	.448	.75886		.76536		•99351		.00649
100	•449	.75930	ng talahat 1938/sabba Nagapat dan Dinas	.76579	,	•99352		.00648
And the second s	2.450	0.75975	44,1	0.76621	42,8	9.99353	1,3	0.00647
Elbyson wife.	u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>3</sub> '	log ese gd u
10,010				Anna di managan di Kabua di				<u>,                                      </u>

u,	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.450 .451 .452 .453 .454	0.75975 .76019 .76063 .76107 .76151	44,1	0.76621 .76664 .76707 .76750 .76793	42,8	9·99353 ·99354 ·99356 ·99357 ·99358	1,3	0.00647 .00646 .00644 .00643 .00642
2.455 .456 .457 .458 .459	0.76195 .76239 .76283, .76327 .76371	44,1	0.76835 .76878 .76921 .76964 .77006	42,8	9.99360 .99361 .99362 .99363 .99365	1,3	0.00640 .00639 .00638 .00637 .00635
2.460 .461 .462 .463 .464	0.76415 .76459 .76503 .76547 .76592	44,1	0.77049 .77092 .77135 .77178 .77220	<b>42,8</b>	9.99366 .99367 .99369 .99370	1,3	0.00634 .00633 .00631 .00630 .00629
2.465 .466 .467 .468 .469	0.76636 .76680 .76724 .76768 .76812	44,1	0.77263 .77306 .77349 .77392 .77435	42,8	9.99372 .99374 .99375 .99376 .99377	1,3 1,2	0.00628 .00626 .00625 .00624 .00623
2.470 .471 .472 .473 .474	0.76856 .76900 .76944 .76988 .77032	44,1	0.77477 .77520 .77563 .77606	<b>42,8</b>	9.99379 .99380 .99381 .99382 .99384	1,2	0.00621 .00620 .00619 .00618 .00616
2.475 .476 .477 .478 .479	0.77076 .77120 .77164 .77208 .77252	44,0	0.77691 .77734 .77777 .77820 .77863	42,8	9.99385 .99386 .99387 .99388 .99390	1,2	0.00615 .00614 .00613 .00612 .00610
2.480 .481 .482 .483 .484	0.77296 .77340 .77384 .77429 .77473	44,0	0.77906 .77948 .77991 .78034 .78077	42,8	9.99391 .99392 .99393 .99394 .99396	1,2	0.00609 .00608 .00607 .00606 .00604
2.485 .486 .487 .488 .489	0.77517 .77561 .77605 .77649 .77693	44,0	0.78120 .78163 .78205 .78248 .78292	42,8	9.99397 .99398 .99399 .99401 .99402	1,2	0.00603 .00602 .00601 .00599 .00598
2.490 .491 .492 .493 .494	0.77737 .77781 .77825 .77869 .77913	44,0	0.78334 .78377 .78420 .78462 .78505	42,8	9.99403 .99404 .99405 .99406	1,2	0.00597 .00596 .00595 .00594 .00592
2.495 .496 .497 .498 .499	0.77957 .78001 .78045 .78089 .78133	44,0	0.78548 .78591 .78634 .78677 .78719	42,8	9.99409 .99410 .99411 .99412	1,2	0.00591 .00590 .00589 .00588 .00586
2.500	0.78177	44,0	0.78762	42,8	9.99415	1,2	0.00585
u ,	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F₀′	log ese gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.500 .501 .502 .503 .504	0.78177 .78221 .78265 .78309 .78353	44,0	0.78762 .78805 .78848 .78891 .78934	42,8	9,99415 .99416 .99417 .99418 .99419	I,2	0.00585 .00584 .00583 .00582 .00581
2.505 .506 .507 .508 .509	0.78397 .78441 .78485 .78529 .78573	44,0	0.78977 .79019 .79062 .79105 .79148	42,9	9.99421 .99422 .99423 .99424 .99425	1,2 1,1	0.00579 .00578 .00577 .00576 .00575
2.510 •511 •512 •513 •514	0.78617 .78661 .78705 .78749 .78793	44,0	0.79191 .79234 .79277 .79319 .79362	42,9	9.99426 .99427 .99429 .99430 .99431	1,1	0.00574 .00573 .00571 .00570 .00569
2.515 .516 .517 .518 .519	0.78837 .78881 .78925 .78969 .79013	44,0	0.79405 .79448 .79491 .79534 .79577	42,9	9.99432 •99433 •99434 •99435 •99437	1,1	0.00568 .00567 .00566 .00565 .00563
2.520 .521 .522 .523 .524	0.79057 .79101 .79145 .79189 .79233	44,0	0.79619 .79662 .79705 .79748 .79791	42,9	9.99438 .99439 .99440 .99441 .99442	1,1	0.00562 .00561 .00560 .00559
2.525 .526 .527 .528 .529	0.79277 .79321 .79365 .79409 .79453	44,0	0.79834 .79877 .79920 .79962 .80005	42,9	9.99443 .99444 .99446 .99447 .99448	1,1	0.00557 .00556 .00554 .00553 .00552
2.530 ·531 ·532 ·533 ·534	0.79497 .79541 .79585 .79629 .79673	44,0	0.80048 .80091 .80134 .80177 .80220	42,9	9.99449 .99450 .99451 .99452 .99453	1,1	0.00551 .00550 .00549 .00548 .00547
2.535 .536 .537 .538 .539	0.79717 .79761 .79805 .79849 .79893	44,0	o.80263 .80306 .80348 .80391 .80434	42,9	9.99454 •99455 •99456 •99458 •99459	I,Į	0.00546 .00545 .00544 .00542 .00541
2.540 •541 •542 •543 •544	0.79937 .79981 .80025 .80069 .80113	44.0	0.80477 .80520 .80563 .80606 .80649	42 <u>,</u> 9	9.99460 .99461 .99462 .99463 .99464	Ι,Ι	0.00540 .00539 .00538 .00537 .00536
2.545 .546 .547 .548 .549	0.80157 .80201 .80245 .80289 .80333	44,0	0,80692 .80734 .80777 .80820 .80863	42,9	9.99465 .99466 .99467 .99468 .99469	<b>I,I</b>	0.00535 .00534 .00533 .00532 .00531
2.550	0.80377	44,0	0.80906	42,9	9.99470	1,1	0.00530
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> ′	log csc gđ u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.550 .551 .552 .553	0.80377 .80420 .80464 .80508 .80552	44,0	0.80906 .80949 .80992 .81035 .81078	42,9	9.99470 .99471 .99473 .99474	1,1	0.00530 .00529 .00527 .00526
• 554 2 • 555 • 556 • 557 • 558 • 559	0.80552 0.80596 .80640 .80684 .80728 .80772	44,0	0.81121 .81164 .81206 .81249 .81292	42,9	99475 9.99476 99477 99478 99479 99480	1,0	0.00524 .00523 .00522 .00521
2.560 .561 .562 .563 .564	o.80816 .80860 .80904 .80948 .80992	44,0 43,9	0.81335 .81378 .81421 .81464 .81507	42,9	9.99481 .99482 .99483 .99484 .99485	1,0	0.00519 .00518 .00517 .00516
2.565 .566 .567 .568 .569	0.81036 .81080 .81124 .81168 .81212	43,9	0.81550 .81593 .81636 .81678 .81721	42,9	9.99486 .99487 .99488 .99489	1,0	0.00514 .00513 .00512 .00511 .00510
2.570 .571 .572 .573 .574	0.81256 .81299 .81343 .81387 .81431	43,9	0.81764 .81807 .81850 .81893 .81936	42,9	9.99491 .99492 .99493 .99494 .99495	1,0	0.00509 .00508 .00507 .00506
2.575 .576 .577 .578 .579	0.81475 .81519 .81563 .81607 .81651	43,9	0,81979 .82022 .82065 .82108 .82151	<b>42,</b> 9	9.99496 .99497 .99498 .99499 .99500	1,0	0.00504 .00503 .00502 .00501 .00500
2.580 .581 .582 .583 .584	0.81695 .81739 .81783 .81827 .81871	43.9	0.82194 .82237 .82279 .82322 .82365	42,9	9.99501 .99502 .99503 .99504 .99505	1,0	0.00499 .00498 .00497 .00496 .00495
2.585 .586 .587 .588 .589	0,81915 .81958 .82002 .82046 .82090	43,9	0,82408 .82451 .82494 .82537 .82580	42,9	9.99506 .99507 .99508 .99509 .99510	1,0	0.00494 .00493 .00492 .00491
2.590 .591 .592 .593 .594	0.82134 .82178 .82222 .82266 .82310	43.9	0.82623 .82666 .82709 .82752 .82795	42,9	9.99511 .99512 .99513 .99514 .99515	1,0	0.00489 .00488 .00487 .00486 .00485
2.595 .596 .597 .598 .599	0.82354 .82398 .82442 .82485 .82529	43,9	0.82838 .82881 .82924 .82967 .83010	42,9 43,0	9.99516 .99517 .99518 .99519 .99520	1,0	0.00484 .00483 .00482 .00481 .00480
2.600	0.82573	43,9	0.83052	43,0	9.99521	1,0	0.00479
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω Fo′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.600 .601 .602 .603 .604	0.82573 .82617 .82661 .82705 .82749	43,9	0.83052 .83095 .83138 .83181 .83224	43,0	9.99521 .99522 .99523 .99524 .99525	1,0	0.00479 .00478 .00477 .00476 .00475
2.605 .606 .607 .608 .609	0.82793 .82837 .82881 .82925 .82968	43,9	0.83267 .83310 .83353 .83396 .83439	43,0	9.99526 .99527 .99527 .99528 .99529	0,9	0.00474 .00473 .00473 .00472 .00471
2.610 .611 .612 .613 .614	0.83012 .83056 .83100 .83144 .83188	43,9	0.83482 .83525 .83568 .83611 .83654	43,0	9.99530 .99531 .99532 .99533 .99534	. 0,9	0.00470 .00469 .00468 .00467 .00466
2.615 .616 .617 .618 .619	0.83232 .83276 .83320 .83364 .83407	43,9	0.83697 .83740 .83783 .83826 .83869	43,0	9.99535 .99536 .99537 .99538 .99539	0,9	0.00465 .00464 .00463 .00462 .00461
2.620 .621 .622 .623 .624	0.83451 .83495 .83539 .83583 .83627	43.9	o.83912 .83955 .83998 .84041 .84084	43,0	9.99540 .99541 .99541 .99542 .99543	0,9	0.00460 .00459 .00459 .00458 .00457
2.625 .626 .627 .628 .629	0.83671 .83715 .83759 .83802 .83846	43,9	0.84127 .84170 .84213 .84256 .84299	43,0	9.99544 .99545 .99546 .99547 .99548	0,9	0.00456 .00455 .00454 .00453 .00452
2.630 .631 .632 .633 .634	0.83890 .83934 .83978 .84022 .84066	43,9	0.84341 .84384 .84427 .84470 .84513	43,0	9.99549 .99550 .99551 .99551	0,9	0.00451 .00450 .00449 .00449
2.635 .636 .637 .638 .639	0.84110 .84154 .84197 .84241 .84285	43,9	0.84556 .84599 .84642 .84685 .84728	43,0	9.99553 .99554 .99555 .99556 .99557	0,9	0.00447 .00446 .00445 .00444 .00443
2.640 .641 .642 .643 .644	0.84329 .84373 .84417 .84461 .84505	43.9	0.84771 .84814 .84857 .84900 .84943	43,0	9.99558 .99559 .99559 .99560 .99561	0,9	0.00442 .00441 .00441 .00440 .00439
2.645 .646 .647 .648 .649	0.84548 .84592 .84636 .84680 .84724	43,9	0.84986 .85029 .85072 .85115 .85158	43,0	9.99562 .99563 .99564 .99565 .99566	0,9	0.00438 .00437 .00436 .00435 .00434
2.650	0.84768	43,9	0.85201	43,0	9.99566	0,9	0.00434
u	log tan gđ u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.650 .651 .652 653 .654	0.84768 .84812 .84855 .84899 .84943	43,9	0.85201 .85244 .85287 .85330 .85373	43,0	9.99566 .99567 .99568 .99569 .99570	0,9	0.00434 .00433 .00432 .00431 .00430
2.655 .656 .657 .658 .659	0.84987 .85031 .85075 .85119 .85162	43.9	0.85416 .85459 .85502 .85545 .85588	43,0	9.99571 .99572 .99572 .99573 .99574	0,9	0.00429 .00428 .00428 .00427 .00426
2.660 .661 .662 .663 .664	0.85206 .85250 .85294 .85338 .85382	43,9	o.85631 .85674 .85717 .85760 .85803	43,0	9.99575 .99576 .99577 .99578 .99578	0,8	0.00425 .00424 .00423 .00422 .00422
2.665 .666 .667 .668 .669	0.85426 .85469 .85513 .85557 .85601	43,9 43,8	o.85846 .85889 .85932 .85975 .86018	43,0	9.99579 .99580 .99581 .99582 .99583	0,8	0.00421 .00420 .00419 .00418 .00417
2.670 .671 .672 .673 .674	0.85645 .85689 .85733 .85776 .85820	43,8	0.86061 .86104 .86147 .86190 .86233	43,0	9.99583 .99584 .99585 .99586 .99587	0,8	0.00417 ,00416 .00415 .00414 .00413
2.675 .676 .677 .678 .679	0,85864 .85908 .85952 .85996 .86039	43,8	0.86276 .86320 .86363 .86406 .86449	43,0	9.99588 .99588 .99589 .99590	0,8	0.00412 .00412 .00411 .00410 .00409
2.680 .681 .682 .683 .684	0.86083 .86127 .86171 .86215 .86259	43,8	0.86492 .86535 .86578 .86621 .86664	43,0	9.99592 .99592 .99593 .99594 .99595	0,8	0.00408 .00408 .00407 .00406 .00405
2.685 .686 .687 .688 .689	0.86302 .86346 .86390 .86434 .86478	43,8	0.86707 .86750 .86793 .86836 .86879	43,0	9.99596 •99597 •99597 •99598 •99599	0,8	0.00404 .00403 .00403 .00402 .00401
2.690 .691 .692 .693 .694	0.86522 .86565 .86609 .86653 .86697	43,8	0.86922 .86965 .87008 .87051 .87094	43,0	9.99600 .99601 .99601 .99602 .99603	0,8	0.00400 .00399 .00399 .00398
2.695 .696 .697 .698 .699	0.86741 .86785 .86828 .86872 .86916	43,8	0.87137 .87180 .87223 .87266 .87309	43,0	9.99604 .99605 .99605 .99606	0,8	0.00396 .00395 .00395 .00394 .00393
2.700	0.86960	43,8	0.87352	43,0	9.99608	0,8	0.00392
U U	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω Fo′	log coth u
2.700 .701 .702 .703 .704	0.86960 .87004 .87048 .87091 .87135	43,8	0.87352 .87395 .87438 .87481 .87524	43,0	9.99608 .99608 .99609 .99610	0,8	0.00392 .00392 .00391 .00390 .00389
2.705 .706 .707 .708 .709	0.87179 .87223 .87267 .87310 .87354	43,8	0.87567 .87610 .87654 .87697 .87740	43,0	9.99612 .99612 .99613 .99614 .99615	0,8	0.00388 .00388 .00387 .00386 .00385
2.710 .711 .712 .713 .714	0.87398 .87442 .87486 .87530 .87573	43,8	0.87783 .87826 .87869 .87912 .87955	43,0	9.99615 .99616 .99617 .99618 .99619	6,8	0.00385 .00384 .00383 .00382 .00381
2.715 .716 .717 .718 .719	0.87617 .87661 .87705 .87749 .87792	43,8	0.87998 .88041 .88084 .88127 .88170	43,1	9.99619 .99620 .99621 .99622	0,8	0.00381 .00380 .00379 .00378 .00378
2.720 .721 .722 .723 .724	0.87836 .87880 .87924 .87968 .88011	43,8	0.88213 .88256 .88299 .88342 .88385	43, İ	9.99623 .99624 .99625 .99625 .99626	0,8 0,7	0.00377 .00376 .00375 .00375 .00374
2.725 .726 .727 .728 .729	0.88055 .88099 .88143 .88187 .88230	43,8	0.88428 .88471 .88515 .88558 .88601	<b>43,</b> I	9.99627 .99628 .99628 .99629 .99630	0, <i>7</i>	0.00373 .00372 .00372 .00371 .00370
2.730 .731 .732 .733 .734	6.88274 .88318 .88362 .88406 .88449	43,8	0.88644 .88687 .88730 .88773 .88816	43,1	9.99631 .99631 .99632 .99633 .99633	0,7	0.00369 .00369 .00368 .00367 .00367
2.735 .736 .737 .738 .739	0.88493 .88537 .88581 .88625 .88668	43,8	0.88859 .88502 .88945 .88988 .89031	<b>43,</b> 1	9.99634 .99635 .99636 .99636 .99637	0,7	0.00366 .00365 .00364 .00364 .00363
2.740 .741 .742 .743 .744	0.88712 .88756 .88800 .88844 .88887	43,8	0.89074 .89117 .89161 .89204 .89247	43,1	9.99638 .99639 .99639 .99640 .99641	0,7	0.00362 .00361 .00361 .00360 .00359
2.745 .746 .747 .748 .749	0.88931 .88975 .89019 .89063 .89106	43,8	0.89290 .89333 .89376 .89419 .89462	43,1	9.99641 .99642 .99643 .99644 .99644	0,7	0.00359 .00358 .00357 .00356 .00356
2.750	0.89150	43,8	0.89505	43,1	9.99645	0,7	0.00355
u	log tan gd u	ω F <sub>0</sub> ′	log sec gđ u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>3</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F₀′ ∴	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> '	log coth u
2.750 .751 .752 .753 .754	0.89150 .89194 .89238 .89281 .89325	43,8	0.89505 .89548 .89591 .89634 .89677	<b>43,</b> 1	9.99645 .99646 .99646 .99647 .99648	0,7	0.00355 00354 00354 00353 00352
2.755 .756 .757 .758 .759	o.89369 .89413 .89457 .89500 .89544	43,8	0.89720 .89764 .89807 .89850 .89893	43 <b>,</b> I	9.99649 .99649 .99650 .99651 .99651	<b>0,7</b>	0.00351 .00351 .00350 .00349 .00349
2.760 .761 .762 .763 .764	0.89588 .89632 .89676 .89719 .89763	43,8	0.89936 .89979 .90022 .90065 .90108	43,ì	9.99652 .99653 .99653 .99654 .99655	0,7	0.00348 .00347 .00347 .00346 .00345
2.765 .766 .767 .768 .769	0.89807 .89851 .89894 .89938 .89982	43,8	0.9015 • CC • • CC •	43,I	9.99656 .99656 .99657 .99658 .99658	0,7	0.00344 .00344 .00343 .00342 .00342
2.770 .771 .772 .773 .774	0.90026 .90069 .90113 .90157 .90201	43,8	0.90367 .90410 .90453 .90496 .90539	43,1	9.99659 .99660 .99660 .99661 .99662	0,7	0,00341 .00340 .00340 .00339 .00338
2.775 .776 .777 .778 .779	0.90245 .90288 .90332 .90376 .90420	43,8	0.90582 .90625 .90668 .90712	43,1	9.99662 .99663 .99664 .99664 .99665	<b>0,7</b>	o.00338 .00337 .00336 .00336
2.780 .781 .782 .783 .784	0.90463 .90507 .90551 .90595 .90638	43,8	0.90798 .90841 .90884 .90927 .90970	43,1	9.99666 .99666 .99667 .99668 .99668	0,7	6.00334 .00334 .00333 .00332
2.785 .786 .787 .788 .789	0.90682 .90726 .90770 .90813 .90857	43,8	0.91013 .91056 .91099 .91142 .91186	43,1	9.99669 .99670 .99670 .99671 .99672	0,7	0.00331 .00330 .00330 .00329 .00328
2.790 .791 .792 .793 .794	0.90901 .90945 .90989 .91032 .91076	43,8	0.91229 .91272 .91315 .91358 .91401	43,1	9.99672 .99673 .99674 .99674 .99675	<b>0,7</b>	0.00328 .00327 .00326 .00326 .00325
2.795 .796 .797 .798 .799	0.91120 .91164 .91207 .91251 .91295	43,8	0.91444 .91487 .91530 .91574 .91617	43,1	9.99676 .99676 .99677 .99678 .99678	0,6	0.00324 .00324 .00323 .00322 .00322
2.800	0.91339	43,8	0.91660	43,1	9.99679	ò,6	0.00321
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F₀′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

Logarithms of Hyperbolic Functions.

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.800 .801 .802 .803 .804	0.91339 .91382 .91426 .91470 .91514	43,8	0.91650 .91703 .91746 .91789 .91832	43,1	9.99579 .99579 .99580 .99681	0,6	0.0032I .0032I .00320 .003I9
2.805 .806 .807 .808 .809	0.91557 .91601 .91645 .91689 .91732	43,7	0.91875 .91918 .91962 .92005 .92048	43,1	9.99682 .99683 .99683 .99684	0,6	0.00318 .00317 .00317 .00316 .00315
2.810 .811 .812 .813 .814	0.91776 .91820 .91864 .91907 .91951	43,7	0.92091 .92134 .92177 .92220 .92263	43,1	9.99685 .99686 .99686 .99687 .99688	<b>0,</b> 6	0.00315 .00314 .00314 .00313 .00312
2.815 .816 .817 .818 .819	0.91995 .92039 .92082 .92126 .92170	43,7	0.92306 .92350 .92393 .92436 .92479	43,1	9.99688 .99689 .99690 .99690	0,6	0.00312 .00311 .00310 .00310 .00309
2.820 .821 .822 .823 .824	0.92213 .92257 .92301 .92345 .92388	43,7	0.92522 .92565 .92608 .92651 .92595	43,1	9.99691 .99692 .99693 .99693	0,6	0.00309 .00308 .00307 .00307 .00306
2.825 .826 .827 .828 .829	0.92432 .92476 .92520 .92563 .92607	43,7	0.92738 .92781 .92824 .92867 .92910	43,1	9.99694 .99695 .99696 .99696	0,6	0.00306 .00305 .00304 .00304
2.830 .831 .832 .833 .834	0.92651 .92695 .92738 .92782 .92826	43,7	0.92953 .92996 .93040 .93083 .93126	43,1	9.99698 .99698 .99699 .99699	0,6	0.00302 .00302 .00301 .00301
2.835 .836 .837 .838 .839	0.92869 .92913 .92957 .93001 .93044	43.7	0.93169 .93212 .93255 .93298 .93341	43,1	9.99701 .99701 .99702 .99702 .99703	0,6	0.00299 .00299 .00298 .00298
2.840 .841 .842 .843 .844	0.93088 .93132 .93176 .93219 .93263	43.7	0.93385 .93428 .93471 .93514 .93557	43,1	9.99704 .99704 .99705 .99705	o,6	0.00296 .00296 .00295 .00295
2.845 .846 .847 .848 .849	0.93307 .93350 .93394 .93438 .93482	43,7	0.93600 .93643 .93687 .93730 .93773	43,1	9.99706 .99707 .99708 .99708	0,6	0.00294 .00293 .00292 .00292 .00291
2.850	0.93525	43,7	0.93816	43,1	9.99709	0,6	0.00291
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> '	log sin gd u	ω F <sub>0</sub> ′	log ese gá u

2.850 .851 .852 .853 .854	0.93525 .93569 .93613 .93657 .93700	ω F <sub>0</sub> ′ 43,7	0.93816 .93859	<u>ω F<sub>0</sub>'</u> 43, I	log tanh u	ω F <sub>0</sub> ′	log coth u
.851 .852 .853	.93569 .93613 .93657	43,7		43.1	0.00=00		
.852 .853	.93613	en en lande	( つっとてつ )	70,-	9.99709	0,6	0.00291
.853	.93657				.99710	own a series of	.00290
.853 .854			.93902		.99711		.00289
.854	.93700		93945		.99711		.00289
		e facilità de la company	.93989		.99712		.00288
2.855	0.93744	43,7	0.94032	43,1	9.99712	0,6	0.00288
.856	.93788	100	.94075		.99713		.00287
.857	.93831	E 18 FE18 EM	.94118		.99713		.00287
.858	.93875	The Section	.94161		.99714		.00286
.859	.93919	0.047.74	94204		.99715		.00285
2.860	0.93963	43,7	0.94247	43,1	9.99715	0,6	0.00285
.851	.94006		.94291		.99716		.00284
.852	.94050	Purplication of	•94334		.99716		.00284
.863	.94094	affir velloga	•94377		.99717		.00283
.854	.94137		.94420		.99717	V	.00283
2.865	0.94181	43,7	0.94463	43,1	9.99718	0,6	0.00282
.856	.94225		.94506		.99719	, ,,	.00281
.867	.94269	i de la como	.94549		.99719	7.76	00281
858	.94312	100	94593		.99720	13.5	.00280
.869	.94356	. :	94636	43,2	.99720		.00280
2.870	0.94400	43,7	0.94679	43,2	9.99721	<b>0,</b> 6	0.00270
.871	.94443	A STATE OF	.94722	10,-	99721	-,-	.00270
.872	.94487		.94765		99722		co278
873	.94531		94808		99722	a Santa Santa	.00278
.874	·94575		.94852		99723	J <sub>m</sub> ,	.00277
- 1/2	Spirite Harry				"		1002//
2.875	0.94618	43,7	0.94895	43,2	9.99724	0,6	0.00276
.876	.94662	Salar Salar II	.94938		99724	198	.00276
.877	.94706	1	.94981		.99725	1.31.14	.00275
.878	94749		.95024		.99725	0,5	.00275
.879	•94793	en fet van de	•95067		.99726		.00274
2.880	0.94837	43,7	0.95110	43,2	9.99726	0,5	0.00274
.88 <sub>1</sub>	.94880		.95154		99727	-,5	.00273
.882	.94924		.95197		99727		.00273
.883	.94968		95240		.99728		.00272
.884	.95012	No. Associa	.95283		99728	- 50	.00272
2.885	0.95055	43,7	0.95326	43,2	9.99729	0,5	0.00271
.886	.95099	30.0	.95369	10,-	99730	~,5	.00270
.887	.95143	the present of the	95413		99730	10	.00270
.888	.95186	99,500	95456		.99731	-	.00269
.889	.95230	la i dali el	•95499		90731		.00269
2.890	0.95274	43,7	0.95542	12.0	0.00722		0.00060
.891	.95317	431/	95585	43,2	9.99732	0,5	0.00268
.892	.95361		95505		99732		.00268
.893	.95405		.95672		•99733		.00267
.894	95449		·95715		·99733 ·99734		.00267
2.895	0.95492	107	0.95758	مداد		1 - 21	
.896	.95536	43,7	95801	43,2	9.99734	0,5	0.00266
.897	.95580	and the second	95844		•99735	1 1	.00265
.898	.955623		95044		99735		.00265
.899	.95667				.99736	1 1 1	.00264
		rah sa sa	.95931		•99737		.00263
2.000	0.95711	43,7	0.95974	43,2	9.99737	0,5	0.00263
u le	og tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u
					And the state of t		

Logarithms of Hyperbolic Functions.

	at forest transfer		AN 1977 THE RESERVE TO SERVE THE PARTY OF TH			NAME OF THE OWNER, OWNER, OWNE	
u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.900 .901 .902 .903 .904	0.95711 ·95754 ·95798 ·95842 ·95885	43,7	0.95974 .96017 .96060 .96103 .96146	43,2	9.99737 .99738 .99738 .99739 .99739	0,5	0.00263 .00262 .00262 .00261 .00261
2.905 .906 .907 .908 .909	0.95929 .95973 .96017 .96060 .96104	43,7	0.96190 .96233 .96276 .96319 .96362	43,2	9.99740 .99740 .99741 .99741 .99742	0,5	0.00260 .00260 .00259 .00259
2.910 .911 .912 .913	0.96148 .96191 .96235 .96279 .96322	43,7	0.96405 .96449 .96492 .96535 .96578	43,2	9 · 99742 • 99743 • 99743 • 99744 • 99744	0,5	0.00258 .00257 .00257 .00256 .00256
2.915 .916 .917 .918 .919	0.96366 .96410 .96453 .96497 .96541	43,7	0.96621 .96664 .96708 .96751 .96794	43,2	9·99745 ·99745 ·99746 ·99746 ·99747	0,5	0.00255 .00255 .00254 .00254 .00253
2.920 .921 .922 .923 .924	0.96584 .96628 .96672 .96716 .96759	43,7	0.96837 .96880 .96923 .96967 .97010	43,2	9.99747 .99748 .99748 .99749 .99749	0,5	0.00253 .00252 .00252 .00251 .00251
2.925 .926 .927 .928 .929	0.96803 .96847 .96890 .96934 .96978	43,7	0.97053 .97096 .97139 .97183 .97226	43,2	9.99750 .99750 .99751 .99751	. O,5	0.00250 .00250 .00249 .00249 .00248
2.930 .931 .932 .933 .934	0.97021 .97065 .97109 .97152 .97196	43,7	0.97269 .97312 .97355 .97398 .97442	43,2	9.99752 .99753 .99753 .99754 .99754	0,5	0.00248 .00247 .00247 .00246 .00246
2.935 .936 .937 .938	0.97240 .97283 .97327 .97371 .97414	43,7	0.97485 .97528 .97571 .97614 .97658	43,2	9.99755 .99755 .99756 .99756	0,5	0.00245 .00245 .00244 .00244 .00243
2.940 .941 .942 .943	0.97458 .97502 .97545 .97589 .97633	43,7	0.97701 .97744 .97787 .97830 .97874	43,2	9.99757 .99758 .99758 .99759 .99759	0,5	0.00243 .00242 .00242 .00241 .00241
2.945 .946 .947 .948 .949	0.97676 .97720 .97764 .97807 .97851	43,7	0.97917 .97960 .98003 .98046 .98089	43,2	9.99760 .99760 .99761 .99761	0,5	0.00240 .00240 .00239 .00239 .00238
2.950	0.97895	43,7	0.98133	43,2	9.99762	0,5	0.00238
u	log tan gd u	ω F₀′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
2.950 .951 .952 .953 .954	0.97895 .97938 .97982 .98026 .98069	43,7	0.98133 .98176 .98219 .98262 .98305	43,2	9.99762 .99763 .99763 .99763 .99764	0,5	0.00238 .00237 .00237 .00237 .00236
2.955 .956 .957 .958 .959	0.98113 .98157 .98200 .98244 .98288	43,7	0.98349 .98392 .98435 .98478 .98521	43,2	9.99764 .99765 .99765 .99766	0,5	0.00236 ,00235 .00235 .00234 .00234
2.960 .961 .962 .963 .964	0.98331 .98375 .98419 .98462 .98506	43,7	0.98565 .98608 .98651 .98694 .98737	43,2	9.99767 .99767 .99768 .99768	0,5	0.00233 .00233 .00232 .00232 .00231
2.965 .966 .967 .968 .969	0.98550 .98593 .98637 .98681 .98724	43,7	0.98781 .98824 .98867 .98910 .98953	43,2 `	9.99769 .99770 .99770 .99770	0,5	0.00231 .00230 .00230 .00230 .00229
2.970 .971 .972 .973 .974	0.98768 .98812 .08855 .98899 .98943	43,7	0.98997 .99040 .99083 .99126 .99169	43,2	9.99771 .99772 .99772 .99773 .99773	0,5	0.00229 .00228 .00228 .00227
2.975 .976 .977 .978	0.98986 .99030 .99074 .99117	43,7	0.99213 .99256 .99299 .99342 .99385	43, <b>2</b>	9.99774 .99774 .99775 .99775 .99775	0,5 0,4	0.00226 .00226 .00225 .00225
2.980 .981 .982 .983 .984	0.99205 .99248 .99292 .99336 .99379	43, <i>7</i>	0.99429 .99472 .99515 .99558 .99601	43,2	9.99776 .99776 .99777 .99777	0,4	0.00224 .00224 .00223 .00223 .00222
2.985 .986 .987 .988 .989	0.99423 .99466 .99510 .99554 .99597	43,7	0.99645 .99688 .99731 .99774 .99818	4 <b>3,2</b>	9.99778 .99779 .99779 .99779 .99780	0,4	0.00222 .00221 .00221 .00221 .00220
2.990 .991 .992 .993 .994	0.99641 .99685 .99728 .99772 .99816	43,6	0.99861 .99904 .99947 .99990 1.00034	43,2	9.99780 .99781 .99781 .99782 .99782	0,4	0.00220 .00219 .00219 .00218 .00218
2.995 .996 .997 .998 .999	0.99859 .99903 .99947 .99990 I.00034	43,6	1.00077 .00120 .00163 .00206 .00250	43,2	9.99783 .99783 .99783 .99784 .99784	0,4	0.00217 .00217 .00217 .00216 .00216
3.000	1.00078	43,6	1.00293	43,2	9.99785	0,4	0.00215
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>3</sub> '	log csc gd u

u ·	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
3.00	1.00078	436,5	1.00293	432,1	9.99785	4,3	0.0021
.01	.00514	436,4	.00725	432,2	.99789	4,2	.00211
.02	.00950	436,4	.01157	432,2	.99793	4,1	.0020
.03	.01387	436,3	.01589	432,3	.99797	4,1	.0020
.04	.01823	436,3	.02022	432,3	.99801	4,0	.00199
3.05	1.02259	436,2	1.02454	432,4	9.99805	3,9	0.0019
.06	.02696	436,2	.02885	432,4	.99809	3,8	.00191
.07	.03132	436,2	.03319	432,4	.99813	3,7	.0018;
.08	.03568	436,1 4 <b>3</b> 6,1	.03751	432,5	.99817	3,7 3,6	,0018; &100.
3.10	1.04440	436,1	1.04616	432,5	9.99824	3,5	0.00176
.11	.04876	436,0	.05049	432,6	.99827	3,4	.0017
.12	.05312	436,0	.05481	432,6	.99831	3,4	.00160
.13	.05748	436,0	.05914	432,6	,99834	3,3	.00166
.14	.06184	435,9	.06347	432,7	.99837	•3,3	.00163
3.15	1.06620	435,9	1.06779	432,7	9.99841	3,2	0.00159
.16	.07056	435,9	.07212	432,7	99844	3,1	.00156
.17	.07492	435,8	.07645	432,8	99847	3,1	.00153
. 18	.07927	435,8	08078	432,8	.99850	3,0	.00150
.19	.08363	435,8	.08510	432,8	.99853	<b>2,</b> 9	.00147
3.20	1.08799	435,7	1.08943 .09376	432,9	9.99856	2,9 2,8	0.0014/
.2I .22	.09235	435.7	.09370	432,9	.99859 .99861	2,8 2,8	.00141
.23	.10106	435,7 435,7	.10242	432,9 432,9	.99864	2,7	00136
.24	10542	435,6	10675	433,0	.99867	2,7	.00133
3.25	1.10077	435,6	1.11108	433,0	9.99869	2,6	0.00131
.26	.11413	435,6	.11541	433,0	.99872	2,6	.00128
.27	.11849	435,6	.11974	433,0	.99875	2,5	.00125
.28	.12284	435,5	.12407	433,1	.99877	2,5	.00123
.29	12720	435,5	.12840	433,1	.99879	2,4	.00121
3.30	1.13155	435,5	1.13273	433,1	9.99882	2,4	0.00118
.31	.13591	435,5	13706	433,1	.99884	2,3	.00116
.32	.14026	435,4	14139	433,2	.99886	2,3	.00112
•33 •34	.14461 .14897	435,4 435,4	.14573 .15006	433,2 433,2	.99891	2,2 2,2	.00100
3.35	1.15332	435,4	1.15439	433,2	9.99893	<b>2,</b> I	0.0010
.36	.15768	435,3	.15872	433,2	.99895	<b>2,</b> I	.0010
. 37	.16203	435,3	.16306	433,3	.99897	2,1	.0010
.38	. 16638	435,3	.16739	433,3	.99899	2,0	.00101
•39	17073	435,3	.17172	433,3	.99901	2,0	.00099
3.40	1.17509	435,3	1.17605 .18039	433.3	9.99903	1,9	0.00097
.41	. 17944 . 18379	435,2 435,2	18472	43 <b>3,3</b> 433,4	.99905	1,9 1,9	00095
.42 .43	18814	435,2	.18906	433,4	.99909	1,8	.0009
•43	.19250	435,2	.19339	433,4	.99911	1,8	.00089
3.45	1.19685	435,2	1.19772	433,4	9.99912	1,8	0.00088
.46	.20120	435,2	20206	433,4	.99914	1,7	.00086
.47	.20555	435,1	.20639	433,5	.99916	1,7	.00082
.48	.20990	435,1	.21073	433,5	.99918	1,6	.00082
•49	.21425	435,1	.21506	433,5	.99919	1,6	.00081
3.50	1.21860	435,1	1.21940	433,5	9.99921	1,6	0.00079
u	log tan gd u	ω Fo'	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log csc gd u

ų	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F₀′	log tanh u	ω F <sub>0</sub> ′	log coth u
3.50 .51 .52 .53	1.21860 .22296 .22731 .23166 .23601	435,1 435,0	I.21940 .22373 .22807 .23240 .23674	433,5	9.99921 .99922 .99924 .99925 .99927	1,6	0.00079 ,00078 ,00076 ,00075
3·55 •56 •57 •58 •59	1.24036 .24471 .24906 .25341 .25776	435.0	1.24107 .24541 .24975 .25408 .25842	433,6	9.99928 .99930 .99931 .99933 .99934	1,4	0,00072 ,00070 ,00069 ,00067 ,00066
3.60 .61 .62 .63 .64	1,26211 .26646 .27080 .27515 .27950	434.9	1.26275 .26709 .27143 .27576 .28010	433,6 433,7	9.99935 .99936 .99938 .99939	1,3	0.00065 .00064 .00062 .00061 .00060
3.65 .66 .67 .68 .69	1,28385 .28820 .29255 .29690 .30125	434.9 434,8	1.28444 .28878 .29311 .29745 .30179	433,8	9.99941 .99942 .99944 .99945 .99946	1,2 1,1	0.00059 .00058 .00056 .00055 .00054
3.70 .71 .72 .73 .74	1.30559 .30994 .31429 .31864 .32299	434,8	1.30612 .31046 .31480 .31914 .32348	433,8	9.99947 .99948 .99949 .99950 .99951	I,I I,O	0.00053 .00052 .00051 .00050 .00049
3.75 .76 .77 .78 .79	1.32733 .33168 .33603 .34038	434,8 434,7	1.32781 .33215 .33649 .34083 .34517	433,8	9.99952 .99953 .99954 .99955 .99956	1,0 0,9	0.00048 .00047 .00046 .00045 .00044
3.80 .81 .82 .83 .84	1.34907 .35342 .35777 .36211 .36646	434,7	1.34951 .35384 .35818 .36252 .36686	433,9	9.99957 .99957 .99958 .99959 .99960	0,9 0,8	0.00043 .00043 .00042 .00041 .00040
3.85 .86 .87 .88 .89	1,37081 .37515 .37950 .38385 .38819	434.7	1.37120 .37554 .37988 .38422 .38856	433,9	9.99961 .99961 .99962 .99963 .99964	0,8	0.00039 .00039 .00038 .00037 .00036
3.90 .91 .92 .93 .94	.39689	434,7 434,6	1.39290 .39724 .40158 .40591 .41025	433,9 434,0	9.99964 .99965 .99966 .99966	0,7	0.00036 .00035 .00034 .00034 .00033
3.95 .96 .97 .98 .99	1.41427 .41862 .42296 .42731 .43166	434,6	1.41459 .41893 .42327 .42761 .43195	434,0	9.99968 .99969 .99970 .99970	0,6	0.00032 .00032 .00031 .00030 .00030
4.00	1.43600	434,6	I.43629	434,0 ω <b>F</b> <sub>0</sub> '	9.99971 log sin gd u	0,6	0.00029
u	log lan gd u	ω F <sub>0</sub> ′	log sec gd u	w FG	ion siu ha n	ω F <sub>0</sub> ′	LOY COC UC II

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
4.00 .01 .02 .03	1.43600 .44035 .44469 .44904 .45339	434,6	1.43629 .44063 .44497 .44931 .45365	434,0	9.99971 .99971 .99972 .99973	0,6	0.00029 .00029 .00028 .00027
4.05 .06 .07 .08	1.45773 .46208 .46642 .47077 .47511	434,6 434,5	1.45799 .46233 .46668 .47102 .47536	434,0 434,1	9·99974 ·99974 ·99975 ·99976	0,5	0.00026 .00026 .00025 .00025
4.10 .11 .12 .13	1.47946 .48380 .48815 .49249 .49684	434,5	1.47970 .48404 .48838 .49272 .49706	434,1	9.99976 .99977 .99978 .99978	0,5	0.00024 .00023 .00023 .00022
4.15 .16 .17 .18	1.50118 .50553 .50987 .51422 .51856	434,5	1.50140 .50574 .51008 .51442 .51876	434,1	9.99978 .99979 .99979 .99980 .99980	0,4	0.00022 .0002I .0002I .00020 .00020
4.20 .21 .22 .23 .24	1.52291 .52725 .53160 .53594 .54029	434,5	1.52310 .52745 .53179 .53613 .54047	434,1	9.99980 .99981 .99981 .99982 .99982	0,4	0.00020 .00019 .00018 .00018
4.25 .26 .27 .28 .29	1.54463 .54898 .55332 .55767 .56201	434,5	1.54481 .54915 .55349 .55783 .56217	434,1	9.99982 .99983 .99983 .99983 .99984	0,4 0,3	0.00018 .00017 .00017 .00017
4.30 .31 .32 .33 .34	1.56636 .57070 .57505 .57939 .58373	434,5 434,4	1.56652 .57086 .57520 .57954 .58388	434,1	9.99984 .99984 .99985 .99985 .99985	0,3	0.00016 .00015 .00015 .00015
4.35 .36 .37 .38 .39	1.58808 .59242 .59677 .60111 .60546	434,4	1.58822 .59256 .59691 .60125 .60559	434,1 434,2	9.99986 .99986 .99986 .99986 .99987	0,3	0.00014 .00014 .00014 .00014
4.40 .41 .42 .43 .44	1.60980 .61414 .61849 .62283 .62718	434,4	1.60993 .61427 .61861 .62296 .62730	434,2	9.99987 .99987 .99987 .99988 .99988	0,3	0.00013 .00013 .00013 .00012
4.45 .46 .47 .48 .49	1.63152 .63587 .64021 .64455 .64890	434,4	1.63164 .63598 .64032 .64467 .64901	434,2	9.99988 .99989 .99989 .99989	0,2	0.00012 .00012 .00011 .00011
4.50	1.65324	434,4	1.65335	434,2	9.99989	0,2	0.00011
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>0</sub> ′	log sin gd u	ω F <sub>0</sub> '	log csc gd u

u	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω Fo'	log coth u
4.50 .51 .52 .53	1.65324 .65759 .66193 .66627 .67062	434,4	1.65335 .65769 .66203 .66637 .67072	434,2	9.99989 .99989 .99990 .99990	0,2	11000.0 11000. 01000. 01000.
4·55 ·56 ·57 ·58 ·59	1.67496 .67931 .68365 .68799 .69234	434,4	1.67506 .67940 .68374 .68808 .69243	434,2	9.99990 .99991 .99991 .99991	0,2	0.00010 .00010 .00009 .00009
4.60 .61 .62 .63 .64	1.69668 .70102 .70537 .70971 .71406	434,4	1.69677 .70111 .70545 .70979 .71414	434,2	9.99991 .99991 .99992 .99992	0,2	0.00009 .00009 .00008 .00008
4.65 .66 .67 .68 .69	1.71840 .72274 .72709 .73143 .73577	434,4	1.71848 .72282 .72716 .73151 .73585	434,2	9.99992 .99992 .99992 .99993 .99993	0,2	o.oooo8 .oooo8 .oooo7 .oooo7
4.70 .71 .72 .73 .74	1.74012 .74446 .74881 .75315 .75749	434,4	1.74019 .74453 .74887 .75322 .75756	434,2	9.99993 .99993 .99993 .99993	0,1	0.00007 .00007 .00007 .00007
4.75 .76 .77 .78 .79	1.76184 .76618 .77052 .77487 .77921	434,4	1.76190 .76624 .77959 .77493 .77927	434,2	9.99993 .99994 .99994 .99994	ó,I	0.00007 .00006 .00006 .00006 .00006
4.80 .81 .82 .83 .84	1.78355 .78790 .79224 .79658 .80093	434,4 434,3	1.78361 .78796 .79230 .79664 .80098	434,2	9.99994 .99994 .99994 .99994 .99995	0,1	0.00006 .00006 .00006 .00005
4.85 .86 .87 .88 .89	1.80527 .80962 .81396 .81830 .82265	434.3	1.80532 .80967 .81401 .81835 .82269	434,2	9.99995 .99995 .99995 .99995	0,1	0.00005 .00005 .00005 .00005
4.90 .91 .92 .93	1.82699 .83133 .83568 .84002 .84436	434,3	1.82704 .83138 .83572 .84006 .84441	434,2	9.99995 .99995 .99995 .99995	0,1	0.00005 .00005 .00005 .00005
4.95 .96 .97 .98 .99	1,84871 .85305 .85739 .86174 .86608	434,3	1.84875 .85309 .85743 .86178 .86612	434,3	9.99996 .99996 .99996 99996	0,1	0.00004 .00004 .00004 .00004 .00004
5.00	1.87042	4,34,3	1.87046	434,3	9.99996	0,1	0.00004
u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω <b>F</b> <sub>0</sub> ′	log sin gd u	ω Fo'	log csc gd u

17	log sinh u	ω F <sub>0</sub> ′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
u 	· · · · · · · · · · · · · · · · · · ·		1.87046				
5.00 .01	1.87042 .87477	4343	87480	434,3	9.99996	0,1	0.00004
.02	.87911		.87915		.99996		.00004
.03	.88345		.88349		.99996		.00004
.04	.88780		.88783		.99996		.00004
						23	
5.05 .06	1.89214	434,3	1.89217	434,3	9.99996	0,1	0.00004
.07	.90083		.90086	ļ	•99997	ļ	.00003
.08	.90517		.90520		•99997 •99997		.00003
.09	.90951		.90955		99997		.00003
5.10	1.91386	434,3	1.91389	434,3	9.99997	0,1	0.00003
.11	.01820	40470	.91823	10110	99997	3,2	.00003
.12	.92254		.92257	ļ	.99997		.00003
.13	.92689		.92692	1	99997	1	.00003
.14	.93123		.93126		•99997		.00003
5.15	1.93557	434,3	1.93560	434,3	9.99997	0,1	0.00003
. 16	.93992		•93994		.99997		.00003
.17	.94426		.94429		-99997		.00003
.18	.94860		.94863	<b>l</b> .	•99997	ĺ	.00003
. 19	.95294		.95297		99997		.00003
5.20	1.95729	434,3	1.95731	434,3	9.99997	0,1	0.00003
.21	.96163		.95166		•99997		.00003
.22	96597		.96600		•99997		.00003
.23	97032		.97034 .97469		.99998	0,0	.00002
.24	.97466		.9/409		.99998	•	.00002
5.25	1.97900	434,3	1.97903	434,3	9.99998	0,0	0.00002
.26	.98335		.98337 .98771		.99998		.00002
.27	.98769		.99206		.99998		.00002
.20	.99638		.99640		.99998		.00002
5.30	2.00072	434,3	2.00074	434,3	9.99998	0,0	0.00002
.31	.00506	70.470	.00508	1070	.99998	5,5	.00002
.32	00941		.00943		.99998		.00002
•33	.01375		.01377		.99998		.00002
•34	.01809		.01811		99998		.00002
5.35	2.02244	434,3	2.02246	434,3	9.99998	0,0	0.00002
.36	.02678	·	.02680		.99998		.00002
.37	.03112		.03114		.99998		.00002
.38	.03547		.03548		.99998		.00002
		404.0		404.0			0.0000
5.40	2.04415 .04849	434,3	2.04417 .04851	434,3	9.99998 .99998	0,0	.00002
42	.05284		.05285		.99998		.00002
•43	.05718		.05720	· ·	99998		.00002
•44	.06152	·	.06154		99998		.00002
5.45	2.06587	434,3	2.06588	434,3	9.99998	0,0	0.00002
.46	.07021		.07023		.99998		.00002
-47	.07455		.07457		99998		.00002
.48	.07890		.07891		.99998		.00002
•49	.08324		.08325	·	•99999		100001
5.50	2.08758	434,3	2.08760	434,3	9.99999	0,0	0.00001
, u	log tan gd u	ω F <sub>0</sub> ′	log sec gd u	ω F <sub>Q</sub> ′	log sin gd u	ω F <sub>0</sub> ′	log ese gd u

u	log sinh u	ω F₀′	log cosh u	ω F <sub>0</sub> ′	log tanh u	ω F <sub>0</sub> ′	log coth u
5.50	2.08758	434,3	2.08760	434,3	9.99999	0,0	0.00001
.51	.09193	10,70	.09194	10.70	.99999		.00001
.52	.09627		.09628		.99999		.00001
	.10061		.10063		99999		.00001
.53			.10497				4 17 17 17 17 17
-54	. 10495		.10497		-99999		.00001
							i di salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah salah sal
5.55	2.10930	434,3	2.10931	434,3	9.99999	0,0	0.00001
.56	.11364		.11305		•99999		.00001
.57	.11798		.11800		.99999		.00001
. 58	.12233		.12234		.99999		.00001
.59	.12667		.12668		.99999		.00001
			175 4 175				
5.60	2.13101	434,3	2.13103	434,3	9.99999	0,0	0.00001
.61	.13536	er Mat	13537		.99999		.00001
.62	.13970		.13971		99999		.00001
.63	. 14404	Shirt and	14405		99999		.00001
			.14840				.00001
.64	. 14839		• 12040		•99999		.00001
r 6r	0 15072	1212	2.15274	434,3	0.0000	0,0	0.00001
5.65	2.15273	434,3	.15708	434,3	9.99999	0,0	Dr. Carlotte Comment
.66	.15707				99999		.00001
.67	.16141		.16142		99999		.00001
.68	.16576	Light state of	. 16577		•99999		.00001
.69	.17010		. 17011		•99999		.0000
		1					of the mathematical
5.70	2.17444	434,3	2.17445	434,3	9.99999	0,0	0.0000
.71	.17879	Control of the control	.17880		199999		.00001
.72	.18313		. 18314		•99999		,00001
.73	.18747	1 1	. 18748	office equals	99999		.00001
.74	.19182		.19182		-99999		.00001
					}		
5.75	2.19616	434,3	2.19617	434,3	9.99999	0,0	0.00001
.76	.20050	Life and	.20051		.99999	1 to 183	.0000
.77	.20484	1 7 7 7 7 7	.20485	l	.99999	2.4.00	.00001
.78	20010	1	20920	İ	99999		.0000
.79	.21353	Professional Control	.21354	1	99999		.0000
		2 45 5 1 4 4 4					
5.80	2.21787	434,3	2.21788	434,3	9.99999	0,0	0.0000
.81	.22222		.22222		-99999		.0000
.82	.22656	138445 1100	.22657		•99999		.0000
.83	.23090	1 2 12 1	.23091	1	99999		.0000
.84		Lanca de la companya	.23525		99999		.0000
•04	.23525			1.	99999		
5.85	2.23959	434.3	2.23960	434,3	9.99999	0,0	0.0000
.86		4040	.24394	40470	99999	-,,,	.0000
	24393		24828				1 8
.87	.24828			1	99999		.0000
.88	.25262		.25262		99999		.0000
.89	.25696		.25697		•99999		.0000
<b>#</b> ^~	0.0670-	1	2.26131	124.2		~~	0 0000
5.90	2.26130	434,3		434,3	9.99999	0,0	0.0000
.91	.26565	1	.26565	1	99999		.0000
.92	.26999		.27000	-	•99999	l	.0000
•93	.27433		.27434		-99999	1	.0000
•94	.27868	1	.27868		.99999	İ	,0000
		1.00	0.50-5-				1
5.95	2.28302	434,3	2.28303	434,3	9.99999	0,0	0.0000
.96	.28736	18	.28737	ta (mare supplement)	•99999	1	.0000
•97	.29171	1	.29171	and a simple from the first	999999	1 .	.0000
.98	.29605	1	.29605		99999	ŀ	.0000
•99	.30039		.30040		•99999		.0000
6.00	2.30473	434,3	2.30474	434,3	9.99999	0,0	0.0000
u	log tan gd u	ω F <sub>0</sub> '	log sec gd u	ω F <sub>0</sub> '	log sin gd u	ω F <sub>2</sub> '	log csc gd
•	Land course in New Year	ala ata i Yasasa		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1 - 2 Joe 30

### TABLE II

# NATURAL HYPERBOLIC FUNCTIONS

	u	sinh	u wi	o'	cosh	1 4	ω F₀′	tanh u	ω F <sub>0</sub> /	coth u	ωF
I	0.000	1		,0	1.0000	ю	0,0	0.0000	0 10,	0	
ı	.000				.0000	ю	-	.0001		10000.00	× T0000
ı	.000				.0000	- 1		.0002		5000.00	
ı	000				.0000			.0003	0	3333.33	0
1		1 10002	<b>+</b> 0		.0000	0		•0004	0	2500.00	625
ı	0.000	_		,0	1.0000	0	0,0	0.00050	700		
I	.000				.00000	0		.0006		2000.00 1666.67	4000
Н	.000	- · · · ·			.00000			.00070		1428.57	277
Н	.0000				.00000	- 1		.00080	<b>)</b>	1250.00	1562
ı	10003	.0005	~		.00000	۲		.00090	)	1111.11	1234
I	0.0010			0	1.00000		0,0	0.00100		7000	
П	.0011	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			.00000	)	-,-	.00110	,-	1	1000
ı	.0012	10 Television 2007			.00000			.00120		909.09	826
ı	.0013		0	- 1	.00000	- I:		.00130		769.23	694 591
	• <b>0</b> 014	.0014	١	-	.00000	1		.00140		714.29	510
	0.0015			0	1.00000	,	0,0	0.00150			
	.0016	.00160	)		.00000		0,0	.00150	,-	666.67	444
	.0017		)		.00000	1	1.13	.00100	1	625.00 588.24	390
	.0018			1	.00000		1.7	.00180		555.56	346 308
	•0019	.00190	'	-	.00000			.00190		526.32	277
	0.0020	0.00200	10,0		1.00000		0,0	0.00200			
	.0021	.00210			.00000		0,0	.00210	10,0	500.00	2500
l	.0022	.00220			.00000	1		.00210		476.19	<b>22</b> 6
١.	.0023	.00230		- [	.00000		j	.00230		454.55 434.78	2060 1890
	.0024	.00240	'		.00000			.00240		416.67	1730
	0.0025	0.00250	10,0	,	1.00000		0,0	0.00250	700		
	.0026	.00260			.00000	'	-,5	0.00250	10,0	400.00	1600
	.0027	.00270			.00000		. 1	.00270		384.62 370.37	1479
	.0028	.00280			.00000	100		.00280	1	357.14	1371 1275
	.0029	.00290			•00000	1 -	- 1	.00290		344.83	1189
•	0.0030	0.00300	10,0		1.00000		0,0	0.00300	10,0	220.00	
	.0031	.00310			.00000	ľ	.	.00310	10,0	333·33 322·58	IIII
	.0032	.00320		1	.00001	1		.00320		312.50	1040 976
	.0034	.00330		ĺ	100001		.	.00330		303.03	918
		.00340			100001			.00340		294.12	865
C	.0035	0.00350	10,0	1	1.00001	٥	0,0	0.00350	10,0	285 50	
	.0036	.00360			100001			.00360	10,0	285.72 277.78	816
	.0037	.00370			.00001	lana et		.00370		270.27	771, 730,
	.0030	.00380			00001			.00380		263.16	692,
		.00090			.00001			.00390		256.41	657,
0	.0040	0.00400	10,0	1	1.00001	. 0	,0	0.00400	IOO	250.00	6
	.0041	.00410			.00001			.00410	10,0	250.00 243.90	625,
	.0042	00420	İ		.00001			.00420	ļ	238.10	594, 566,
	.0043	.00430			100001		1	.00430	ļ	232.56	540,
		.00440		1	100001			.00440	1	227.27	516,
	.0045	0.00450	10,0	I	100001	0,	,о	0.00450	10,0	222.22	
	.0046	.00460			100001			.00460	-0,0	217.39	493, 4 <b>7</b> 2,
	.0047	.00470			10000		1	.00470		212.77	452,
	.0049	.00460			100001			.00480		208.33	434,0
			_					.00490		204.08	416,
·	.0050	0.00500	10,0	-	10000	0,		0.00500	10,0	200.00	400,0
	U	tan gd u	ω F <sub>0</sub> ′	8	ec gd u	ω F <sub>0</sub>	′	sin gd u	ω F <sub>0</sub> ′	csc gd u	₩ Fo'

### Natural Hyperbolic Functions.

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	ooth u	
					,		coth ù	ω F₀′
0.0050	0.00500	10,0	1.00001	0,1	0.00500	10,0	200.00	400,0
.0051	.00510		.00001		.00510		196.08	384,5
			.00001		.00520		192.31 188.68	369,8
.0053	.00530		.00001	13 m	.00530		185.19	356,0
.0034	.00340		.00001		.00540		105.19	342,9
0.0055	0.00550	10,0	1.00002	0,1	0.00550	10,0	181.82	330,6
.0056	.00560	100	.00002	ment ve	.00560		178.57	318,9
.0057	.00570		.00002	Figure 1	.00570		175.44	307,8
.0058	.00580		.00002		.00580		172.42	297,3
.0059	.00390		100002		.00590		169.49	287,3
0.0060	0.00500	10,0	1.00002	0,1	0.00600	10,0	166.67	277,8
0061	.00510		.00002		.00610		163.94	268,7
.0062	.00620		.00002	archaels	.00620		161.29	260,1
.0063	.00530		.00002	(A. A. A. A. A. A. A. A. A. A. A. A. A. A	.00630		158.73	251,9
.0054	.00540	0.53 - 3	.00002	ia di P	.00640		156.25	<b>244,</b> I
0.0065	0.00650	10,0	1.00002	0,1	0.00650	10,0	153.85	236,7
.0056	.00560		.00002		.00660		151.52	229,6
.0067	.00670	S	.00002		.00670		149.26	222,8
0058	.00580		.00002		.00680		147.06	216,3
.0069	.00590		.00002		.00690		144.93	210,0
0.0070	0.00700	10,0	1.00002	0,1	0.00700	10,0	142.86	204,1
.0071	.00710		.00003		.00710		140.85	198,4
.0072	.00720		.00003		.00720		138.89	192,9
.0073	.00730		.00003		00730		136.99	187,6
.0074	.00740		.00003		.00740		135.14	182,6
0.0075	0.00750	10,0	1.00003	0,1	0.00750	10,0	133.34	177,8
.0076	.00760		.00003		.00760		131.58	173,1
.0077	.00770		.00003		.00770		129.87	168.7
.0078	.00780	4 4	.00003		.00780		128.21	164,4
.0079	.00790		.00003		.00790		126.58	160,2
0.0080	0.00800	10,0	1.00003	01,	0.00800	10,0	125.00	156,2
.0081	.00810		.00003		.00810		123.46	152,4
.0082	.00820		00003		.00820	ľ	121.95	148,7
.0083	.00830		.00003		.00830		120.48	145,2
.0084	.00840		.00004		.00840		119.05	141,7
0.0085	0.00850	10,0	1.00004	0,1	0.00850	10,0	117.65	138,4
.0086	.00860	14 A	.00004		.00860		116.28	135,2
.0087	.00870		.00004		.00870		114.95	132,1
.0088	.00880		.00004		.00880		113.64	129,1
.0089	.00890	1 7	.00004		.00890		112.36	126,2
0.0090	0.00900	10,0	1.00004	0,1	0.00000	10,0	111.11	123,5
0091	.00910		.00004	}	.00010		109.89	120,8
.0092	.00920	and the sale	.00004		.00920	- ' -	108.70	118,1
.0093	.00930		00004		.00930		107.53	115,6
.0094	.00940		.00004		.00940		106.39	113,2
0.0095	0.00050	10,0	1.00005	0,1	0.00950	10,0	105.27	110,8
0096	.00960		.00005		.00960		104.17	108,5
.0097	.00970		.00005	1	.00970		103.10	106,3
.0098	.00080		00005		.00980		102.04	104,1
.0099	.00990	·	.00005		00000	41 A	101.01	102,0
0.0100	0.01000	10,0	1.00005	0,1	0.01000	10,0	100.00	100,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F₀′

### Natural Hyperbolic Functions.

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> /	coth u	⇔ F₀′
							COUL II	
0.0100	0.01000	10,0	1.00005	0,1	0.01000	. 10,0	100.003	1000,0
1010.	.01010	1	.00005		.01010	ĺ	99.013	980,3
.0102	.01020		.00005		.01020		98.043	961,1
.0103	.01030	1	.00005		.01030		97.091	942,6
.0104	.01040	1	.00005		.01040		96.157	924,5
0.0105	0.01050	10,0	1.00006	0,1	0.01050	10,0	95.242	907,0
.0106	.01060		.00006	•	.01060	,	94.343	890,0
.0107	.01070		.00006		.01070		93.462	873,4
.0108	.01080	ł	.00006		.01080	1	92.596	857,3
.0109	.01090		.00006		.01090		91.747	841,6
0.0110	0.01100	10,0	1.00006	0,1	0.01100	10,0	90.913	826,4
.0111	.01110	10,0	.00006	0,1	01110.	10,0	90.094	811,6
		]	.00006		1		89.289	
.0112	.01120	1			.01120	ĺ		797,2
.0113	.01130		.00006		.01130		88.499	783,1
.0114	.01140		.00006		.01140		87.723	769,4
0.0115	0.01150	10,0	1.00007	0,1	0.01150	10,0	86.960	756,1
.0116	.01160		00007		.01160		86.211	743,1
.0117	.01170		.00007		.01170		85.474	730,5
.0118	.01180	j	.00007		.01180		84.750	718,2
.0119	.01190		.00007		.01190		84.038	706,1
0.0120	0.01200	10,0	1.00007	0,1	0.01200	10,0	83.337	694,4
.0121	.01210	1	.00007	•	.01210		82.649	683,0
.0122	.01220		.00007		.01220		81.971	671,8
.0123	.01230		.00008		.01230		81.305	660,9
.0124	.01240		.00008		.01240		80.649	650,3
0.0705	0.01050	700	1.00008	0.1	0.01250	TO 0	80.004	640,0
0.0125	0.01250	10,0	.00008	0,1	0.01250 .01260	10,0		
.0126	.01260		1 1 1 1 1 1			·	79.369	629,8
.0127	.01270		.00008		.01270		78.744	620,0
.0128	.01280	ŀ	.00008		.01280		78.129	610,3
.0129	.01290		.00008		.01290	1,7 m²	77.524	600,9
0.0130	0.01300	10,0	1.00008	0,1	0.01300	10,0	76.927	591,7
.0131	.01310		.00009		.01310		76.340	582,7
.0132	.01320		.00000		.01320		75.762	573,9
.0133	.01330		.000009		.01330		75.192	565,3
.0134	.01340		.00009		.01340		74.631	556,9
0.0135	0.01350	10,0	1.00009	0,1	0.01350	10,0	74.079	548,7
.0136	.01360		.00009	•	.01360		73.534	540,6
.0137	.01370		.00009		.01370		72.997	532,8
.0138	.01380		.00010		.01380	1.	72.468	525,1
.0139	.01390		.00010		.01390		71.947	517,5
0.0140	0.01400	10,0	1.00010	0,1	0.01400	10,0	71.433	510,2
.0141	.01410	20,0	.00010	-,-	.01410	,0	70.927	503,0
.0142	.01410		.00010		.01410		70.427	495,9
			.00010				69.935	495,9
.0143	.01430 .01440		.00010		.01430 .01440		69.449	482,2
		<u>-</u>						
0.0145	0.01450	10,0	1.00011	0,1	0.01450	10,0	68.970	475,6
.0146	.01460		.00011		.01460		68.498	469,1
.0147	.01470		.00011		.01470		68.032	462,7
.0148	.01480		.00011		<b>.0</b> 1480		67.573	456,5
.0149	.01490		.00011		.01490		67.119	450,4
0.0150	0.01500	10,0	1.00011	0,2	0.01500	10,0	66.672	444.4
	tan gd u	ω Fo'	sec gd u	ω F <sub>0</sub> ′	sin gđ u	ω F <sub>0</sub> ′	csc gd u	ω F₀′

### Natural Hyperbolic Functions.

0.0150 .0151 .0152 .0153 .0154	0.01500 .01510 .01520	10,0	1.00011	0,2	0.01500	10,0	66.672	444,4
.0151 .0152 .0153	.01510	,-			J 1			
.0152			LILUUUs		.01510		66.230	438.5
.0153			.00012		.01520		65. <i>7</i> 95	432,8
	.01530		.00012		.01530	436	65.365	427,2
7-5-9	.01540		.00012		.01540		64.940	421,6
	7.1						42	
	0.01550	10,0	1.00012	0,2	0.01550	10,0	64.521	416,2
.0156	.01560		.00012		.01560	1	64.108	410,9
.0157	.01570		.00012		.01570	i	63.699	405,7
.0158	.01580		.00012	MA 1	.01580	ì	63.296	400,5
.0159	.01590	-	.00013		.01590	j	62.898	395,5
0.0160	0.01600	10,0	1.00013	0,2	0.01600	10,0	62.505	390,6
.0161	.01610		.00013		.01610	´	62.117	385,8
.0162	.01620		.00013	[ ]	.01620	J	61.734	381,0
.0163	.01630	100 mg/mg/s	.00013		.01630		61.355	376,3
.0164	.01640	1. 74	.00013		.01640		60.981	371,8
0.0165	0.01650	10,0	1.00014	0,2	0.01650	700	60.612	367,3
.0166	.01660	10,0	.00014	- U,2	.01660	10,0	60.247	362,9
.0167	.01670	- 1	.00014	. s	.01600		59.886	358,5
.0168	.01680		.00014		.01680		59.529	354.3
.0169	01690		.00014		.01690		59.177	354,3 350,1
-				1, \$4500			\$ 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1 S 1	A CONTRACTOR
0.0170	0.01700	10,0	1.00014	0,2	0.01700	10,0	58.829	346,0
.0171	.01710		.00015	1. 1.	.01710		58.485	342,0
.0172	.01720		.00015	ļ* !	.01720		58.145	338,0
.0173	.01730		.00015		.01730		57.809	334,1
.0174	.01740	l	.00015		.01740		57 • 477	330,3
0.0175	0.01750	10,0	1.00015	0,2	0.01750	10,0	57.149	326,5
.0176	.01760	,	.00015	,-	.01760	-5,5	56.824	322,8
0177	.01770		.00016		.01770		56.503	319,2
.0178	.01780		.00016		.01780		56.186	315,6
.0179	.01790		.00016		.01790	1	55.872	312,1
0.0180	0.01800	10,0	1.00016	0,2	0.01800	10,0	55.562	308,6
	0.01810	10,0	.00016	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	0.01810	10,0	55.255	305,2
.0182	.01820		.00017		.01820	1	54.951	301,9
.0183	.01830	1	.00017		.01830		54.651	298,6
.0184	.01840	0	.00017	1	.01840	1.	54.354	295,3
10104			, , , , ,		.01040			
0.0185	0.01850	10,0	1.00017	0,2	0.01850	10,0	54.060	292,2
.0186	.01860		.00017		.01860	<u></u>	53.770	289,0
.0187	.01870		.00017		.01870	1	53.482	285,9
.0188	.01880		.00018	.]	.01880		53.198	282,9
.0189	.01890	1	.00018		,01890		52.916	279,9
0.0190	0.01900	10,0	1.00018	0,2	0.01900	10,0	52.638	277,0
.0191	01910	1754	.00018	1	.01910		52.362	274,1
.0192	.01920		.00018	h 4	.01920	1	52.000	271,2
.0193	.01930		.00019		.01930		51.820	268,4
.0194	.01940		.00019		.01940		51.553	265,7
0.0195	0.01950	10,0	1.00019	0,2	0.01950	10,0	51.289	263,0
.0196	.01960	1 20,0	.00019	,,,,,,	.01960	10,5	51.027	260,3
.0190	.01900	}-	.00019		.01970		50.768	257,6
.0198	.01980	1	.00020	1	.01980		50.512	255,0
.0199	.01990	1	.00020		01990		50.258	252,5
0.0200	0.02000	10,0	1.00020	0,2	0.02000	10,0	50.007	250,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F₀′	csc gd u	⊌ F₀′

6.5005 10.5 20.5 20.5 20.5 20.5 20.5 20.5 20.5 2			egill complete to the property light			olic Funct			
	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
	0.0200 .0201 .0202 .0203 .0204	0.02000 .02010 .02020 .02030 .02040	10,0	1.00020 .00020 .00020 .00021 .00021	0,2	0.02000 .02010 .02020 .02030 .02040	10,0	50.007 49.758 49.512 49.268 49.026	250,0 247,5 245,0 242,6 240,3
	0.0205 .0206 .0207 .0208 .0209	0.02050 .02060 .02070 .02080 .02090	10,0	1.0002I .0002I .0002I .00022 .00022	0,2	0.02050 .02060 .02070 .02080 .02090	10,0	48.787 48.551 48.316 48.084 47.854	237,9 235,6 233,3 231,1 228,9
	0.0210 .0211 .0212 .0213 .0214	0.02100 .02110 .02120 .02130 .02140	10,0	1.00022 .00022 .00022 .00023 .00023	0,2	0.02100 .02110 .02120 .02130 .02140	10,0	47.626 47.400 47.177 46.955 46.736	226,7 224,6 222,5 220,4 218,3
	0.0215 .0216 .0217 .0218 .0219	0.02150 .02160 .02170 .02180 .02190	10,0	1.00023 .00023 .00024 .00024 .00024	0,2	0.02150 .02160 .02170 .02180 .02190	10,0	46.519 46.303 46.090 45.879 45.669	216,3 214,3 212,3 210,4 208,5
	0.0220 .0221 .0222 .0223 .0224	0.02200 .02210 .02220 .02230 .02240	10,0	1.00024 .00024 .00025 .00025 .00025	0,2	0.02200 .02210 .02220 .02230 .02240	10,0	45.462 45.256 45.052 44.850 44.650	206,6 204,7 202,9 201,1 199,3
	0.0225 .0226 .0227 .0228 .0229	0.02250 .02260 .02270 .02280 .02290	10,0	1.00025 .00026 .00026 .00026 .00026	0,2	0.02250 .02260 .02270 .02280 .02290	10,0	44.452 44.255 44.060 43.867 43.676	197,5 195,7 194,0 192,3 190,7
	0.0230 .0231 .0232 .0233 .0234	0.02300 .02310 .02320 .02330 .02340	10,0	1.00026 .00027 .00027 .00027 .00027	0,2	0.02300 .02310 .02320 .02330 .02340	10,0	43.486 43.298 43.111 42.926 42.743	189,0 187,4 185,8 184,2 182,6
	0.0235 .0236 .0237 .0238 .0239	0.02350 .02360 .02370 .02380 .02390	10,0	1.00028 .00028 .00028 .00028 .00029	0,2	0.02350 .02360 .02370 .02380 .02390	10,0	42.561 42.381 42.202 42.025 41.849	181,1 179,5 178,0 176,5 175,0
	0.0240 .0241 .0242 .0243 .0244	0.02400 .02410 .02420 .02430 .02440	10,0	1.00029 .00029 .00029 .00030 .00030	0,2	0.02400 .02410 .02420 .02430 .02440	10,0	41.675 41.502 41.330 41.160 40.992	173,6 172,1 170,7 169,3 167,9
	0.0245 .0246 .0247 .0248 .0249	0.02450 .02460 .02470 .02480 .02490	10,0	1.00030 .00030 .00031 .00031	0,2	0.02450 .02460 .02469 .02479 .02489	10,0	40.824 40.659 40.494 40.331 40.169	166,6 165,2 163,9 162,6 161,3
A.	0.0250	0.02500	10,0	1.00031	0,3	0.02499	10,0	40.608	160,0
	u	tan gd u	ω F₀′	sec gd u	ω F₀′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F₀′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F₀′	coth u	w F₀′
0.0250	0.02500	10,0	1.00031	0,3	0.02499	10,0	40.008	160,0
.0251	.02510	,-	.00032	-70	02509	,-	39.849	158,7
.0252	.02520		.00032		.02519		39.691	157,4
.0253	.02530	100	.00032	\$15.55	.02529		39.534	156,2
.0254	.02540		.00032	6 B 38	.02539	İ	39.379	155,0
.0254	.02540	Aris Co	.00032		.02539		39.3/9	
0.0255	0.02550	10,0	1.00033	0,3	0.02549	10,0	39.224	153,8
.0256	.02560	13	.00033		.02559		39.071	152,6
.0257	.02570	(5)	.00033		.02569		38.919	151,4
.0258	.02580		.00033		.02579	I	<b>3</b> 8. <i>7</i> 68	150,2
.0259	.02590		.00034		.02589		38.619	149,0
0.0260	0.02600	10,0	1.00034	0,3	0.02599	10,0	38.470	147,9
.0261	.02610		.00034		.02609		38.323	146,8
.0262	.02620		.00034		.02619		38.177	145,7
.0263	.02630	per see	.00035		.02629		38.032	144,5
.0254	.02640		.00035		.02639		37.888	143,4
0.0065	0.02650	10,0	T 00025	•	0.02649	100	27 745	Ť40.4
0.0265	.02660	10,0	1.00035 .00035	0,3		10,0	37.745	142,4
		N. W. W.			.02659	1	37.603	141,3
.0267	.02670		.00036		.02669		37.462	140,2
.0268	.02680		.00036		.02679		37.322	139,2
.0269	.02690		.00036		.02689		37.184	138,2
0.0270	0.02700	10,0	1.00036	0,3	0.02699	10,0	37.046	137,1
.0271	.02710		00037		.02709	,	36.909	136,1
.0272	.02720		.00037		.02719		36.774	135,1
0273	.02730		.00037		.02729		36.639	134,1
.0274	.02740		.00038		.02739		36.505	133,2
0.0275	0.02750	10,0	1.00038	0,3	0.02749	10,0	36.373	132,2
.0276	.02760	10,0	.00038	٠,5	.02759	10,0	36.241	131,2
.0277	,02770	1	.00038		.02769	1	36.110	130,3
.0278	.02780		.00039		.02779		35.980	129,4
.0279	.02790	3	.00039		.027/9		35.852	128,4
.02/9	.02/90		•00039		102709		33.032	120,4
0.0280	0.02800	10,0	1.00039	0,3	0.02799	10,0	35.724	127,5
.0281	.02810		.00039		.02809		35.597	126,6
.0282	.02820		.00040		.02819		35.470	125,7
.0283	.02830		.00040	A	.02829		35.345	124,8
.0284	.02840	7	.00040	An an artist of a	.02839		35.221	124,0
0.0285	0.02850	10,0	T 0004T	~ ~	0.02849	10,0	25 005	7000
.0286	.02860	10,0	1.00041	0,3	.02859	10,0	35.097	123,2
100	.02870	1 4	.00041		.02859		34.975	122,2
.0287			.00041			1	34.853	121,4
.0288	.02880	- 13	.00041		.02879		34.732	120,5
.0289	.02890		.00042		.02889		34.612	119,7
0.0290	0.02900	10,0	1.00042	0,3	0.02899	10,0	34.492	118,9
.0291	.02910	150	.00042		.02909		34 - 374	118,1
.0292	.02920		.00043		.02919		34.256	117,2
.0293	.02930	1	.00043		.02929		34.139	116,4
0294	02940	1	.00043		.02939		34.023	115,7
0.0295	0.02950	10,0	1.00044	0,3	0.02949	10,0	33.908	114,9
.0296	02950	-0,0	.00044	5,5	.02959		33·794	114,1
.0297	.02970	25 E	.00044	1	.02959		33.680	113,3
.0298	02980	A.	.00044		.02979		33.567	112,6
.0299	.02900		.00045		.02989		33.455	111,8
0.0300	0.03000	10,0	1,00045	0.3	0.02999	10,0	33 • 343	111,1
ш.	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω Fo'
, н.	ten yu u	,	occ ya u			TO	voc gu u	₩ F0

SMITHSONIAN TABLES

u	sinh ų	ω F <sub>0</sub> *	gosh u	ω <sub>:</sub> <b>F</b> <sub>0</sub> ′	tanh u	₩ F <sub>0</sub> ′	coth u	∞ F <sub>0</sub> ′
0.0300	0.03000	10,0	1.00045	0,3	0.02999	10,0	33.343	111,
.0301	.03010		.00045	- 70	.03009		33.233	110,
.0302	.03020		.00046		.03019		33.123	109,
.0303	.03030		.00046		.03029	1	33.013	108,
.0304	.03040		.00046		.03039		32.905	108,
0.0305	0.03050	10,0	1.00047	0,3	0.03049	10,0	32.797	107,
.0306	.03060		.00047		.03059	1	32.690	106,
.0307	.03070		.00047		.03069		32.584	106,
0308	.03080		.00047		.03079	I	32.478	105,
.0309	.03090		.00048		.03089	.	32.373	104,
0.0310	0.03100	10,0	1.00048	0,3	0.03099	10,0	32.268	104,
.0311	.03111		.00048		.03109	ļ	32.165	103,
.0312	.03121		.00049		.03119		32.062	102,
.0313	.03131		.00049		.03129		31.959	102,
.0314	.03141		.00049		.03139		31.858	101,
0.0315	0.03151	10,0	1.00050	0,3	0.03149	10,0	31.757	100,
.0316	.03161		.00050		.03159		31.656	100,
.0317	.03171		.00050		.03169	Į.	31.556	99,
.0318	.03181		.00051		.03179		31.457	98,
.0319	.03191		.00051		.03189		31.359	98,
0.0320	0.03201	10,0	1.00051	0,3	0.03199	10,0	31.261	97,
.0321	.03211		.00052		.03209		31.163	97,
.0322	.03221		.00052		.03219		31.067	96,
.0323	.03231		.00052		.03229		30.971	95,
.0324	.03241		.00052		.03239		30.875	95,
0.0325	0.03251	10,0	1.00053	0,3	0.03249	10,0	30.780	94,
.0326	.03261		.00053		.03259	1	30.686	94,
.0327	.03271		.00053		03269		30.592	93,
.0328	.03281		.00054		.03279		30.499	92,
.0329	.03291		.00054		.03289		30.406	92,
0.0330	0.03301	10,0	1.00054	0,3	0.03299	10,0	30.314	91,
.0331	.03311		.00055		.03309		30.223	91,
.0332	.03321		.00055		.03319		30.132	90,
.0333	03331		.00055		.03329		30.041	90,
.0334	.03341		.00056		.03339		29.951	89,
0.0335	0.03351	10,0	1.00056	0,3	0.03349	10,0	29.862	89,
.0336	.03361		.00056		.03359	1	29.773	88,
.0337	.03371		.00057		.03369	1	29.685	88,
.0338	.03381		.00057		.03379	1	29.597	87, 87,
.0339	.03391		.00057		.03389		29.510	٠.
0.0340	0.03401	10,0	1.00058	0,3	0.03399	10,0	29.423	86,
.0341	.03411	÷	.00058		.03409	İ	29.337	86,
.0342	.03421		.00058		.03419		29.251	85,
.0343	.03431		.00059		.03429		29.166 20.081	85,
.0344	.03441		.00059		.03439		-	84,
0.0345	0.03451	10,0	1.00060	0,3	0.03449	10,0	28.997	84,
.0346	.03461		.00060 .00060		.03459		28.913 28.830	83,
.0347 .0348	.03471		.00061		.03469		28.747	83, 82,
.0349	.03491	·	.00061		.03489		28.665	82,
0.0350	0.03501	10,0	1.00061	0,4	0.03499	10,0	28.583	81,
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F₀′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

	Natural Hyperbolic Functions,											
u	sinh u	ω Fo'	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	∞ F <sub>0</sub> ′				
0.0350 .0351 .0352 .0353 .0354	0.03501 .03511 .03521 .03531 .03541	10,0	1.00061 .00062 .00062 .00062	0,4	0.03499 .03509 .03519 .03529 .03539	I0,Ö	28.583 28.502 28.421 28.340 28.260	81,6 81,1 80,7 80,2 79,8				
0.0355 .0356 .0357 .0358 .0359	0.03551 .03561 .03571 .03581 .03591	10,0	1.00063 .00063 .00064 .00064	0,4	0.03549 .03558 .03568 .03578 .03588	10,0	28.181 28.102 28.023 27.945 27.867	79.3 78.9 78.4 78.0 77.6				
0.0360 .0361 .0362 .0363 .0364	0.03601 .03611 .03621 .03631 .03641	10,0	1.00065 .00065 .00066 .00066	0,4	0.03598 .03608 .03618 .03628 .03638	10,0	27.790 27.713 27.636 27.560 27.485	77,1 76,7 76,3 75,9 75,4				
0.0365 .0366 .0367 .0368 .0369	0.03651 .03661 .03671 .03681 .03691	10,0	1.00067 .00067 .00067 .00068	0,4	o.o3648 .o3658 .o3668 .o3678 .o3688	10,0	27.409 27.335 27.260 27.186 27.113	75,0 74,6 74,2 73,8 73,4				
0.0370 .0371 .0372 .0373 .0374	0.03701 .03711 .03721 .03731 .03741	10,0	1.00068 .00069 .00069 .00070	0,4	0.03698 .03708 .03718 .03728 .03738	10,0	27.039 26.967 26.894 26.822 26.750	73,0 72,6 72,2 71,8 71,5				
0.0375 .0376 .0377 .0378 .0379	0.03751 .03761 .03771 .03781 .03791	10,0	1.00070 .00071 .00071 .00071	0,4	0.03748 .03758 .03768 .03778 .03788	10,0	26.679 26.608 26.538 26.468 26.398	71,1 70,7 70,3 70,0 69,6				
0.0380 .0381 .0382 .0383 .0384	0.03801 .03811 .03821 .03831 .03841	10,0	1.00072 .00073 .00073 .00073 .00074	0,4	0.03798 .03808 .03818 .03828 .03838	10,0	26.328 26.259 26.191 26.122 26.054	69,2 68,9 68,5 68,1 67,8				
0.0385 .0386 .0387 .0388 .0389	0.03851 .03861 .03871 .03881 .03891	10,0	1.00074 .00075 .00075 .00075 .00076	0,4	o.o3848 .o3858 .o3868 .o3878 .o3888	10,0	25.987 25.920 25.853 25.786 25.720	67,4 67,1 66,7 66,4 66,1				
0.0390 .0391 .0392 .0393 .0394	0.03901 .03911 .03921 .03931 .03941	10,0	1.00076 .00076 .00077 .00077 .00078	0,4	0.03898 .03908 .03918 .03928 .03938	10,0	25.654 25.588 25.523 25.458 25.394	65,7 65,4 64,0 64,7 64,4				
0.0395 .0396 .0397 .0398 .0399	0.03951 .03961 .03971 .03981	10,0	1.00078 .00078 .00079 .00079	0,4	0.03948 .03958 .03968 .03978 .03988	10,0	25.330 25.266 25.202 25.139 25.076	64,1 63,7 63,4 63,1 62,8				
0.0400	σ.04001	10,0	1.00080	0,4	0.03998	10,0	25.013	62,5				
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′				

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0.0401	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> /`	coth u	w F₀′
O.0415	0.0400	0.04001	10.0	1.00080	0,4	0.03008	10,0	25.013	62,5
0.0402			7-7-		-,				62,2
0.0403			1	.00081		.04018		24.889	61,8
0.0404		.04031		.00081		.04028		24.827	61,5
O.   O.   O.   O.   O.   O.   O.   O.				.00082		.04038		24.766	61,2
0.0406	0.0405	0.04051	10,0	1.00082	0,4	0.04048	10,0	24.705	60,8
	.0406	.04061		.00082		.04058			60,6
0.0409	.0407	.04071		.00083				24.584	60,3
0.0410	.0408	.04081							60,0
O.0411   O.04111   O.0084   O.0418   O.0415   O.04161   O.0085   O.0418   O.0418   O.04161   O.0087   O.04168   O.04168   O.04168   O.0418   O.04181   O.0087   O.04168   O.04188   O.04181   O.0087   O.04188   O.04188   O.04181   O.0088   O.04188   O.04188   O.04188   O.04188   O.04191   O.0088   O.04188   O.04188   O.04188   O.04188   O.04191   O.0089   O.04201   O.04201   O.0089   O.04201   O.04221   O.0089   O.04227   O.04231   O.0089   O.04227   O.04231   O.0089   O.04237   O.04231   O.0089   O.04237   O.04231   O.0090   O.04237   O.04231   O.0090   O.04237   O.04231   O.0090   O.04237   O.04231   O.0090   O.04237   O.04231   O.00901   O.04267   O.04261   O.04261   O.00901   O.04267   O.04261   O.04261   O.00902   O.04277   O.023.348   O.0429   O.04291   O.00092   O.04277   O.04287   O.04291   O.00903   O.04287   O.04281   O.00903   O.04287   O.04301	.0409	.04091		.00084		.04088		24.464	59,2
.0412			10,0		0,4		10,0		59,5
O.0413		. ,							59,2
O.0415			.				1		58,9
0.0415									58,7
.0416         .04161         .00087         .04188         24.052         57, 0417         .04171         .00087         .04168         23.995         57, 10416         23.937         57, 10416         23.937         57, 10416         23.937         57, 10419         57, 10419         .04191         .00087         .04188         23.937         57, 10419         57, 10419         .04191         .00088         .04188         23.937         57, 10419         57, 10	.0414	.04141	.	.00085		.04138		24.108	. 58,3
0.417			10,0		0,4		10,0		58,0
.0418         .04181         .00087         .04178         23.937         57,           .0419         .04191         .00088         .04188         23.937         57,           .0421         .04211         .04211         .00089         .04208         .04208         23.767         56,           .0422         .04221         .00089         .04217         23.711         56,         56,         56,           .0423         .04231         .00089         .04227         23.655         55,         55,           .0424         .04241         .00090         .04237         10,0         23.544         55,           .0425         .04261         .04261         .00090         .04277         10,0         23.544         55,           .0426         .04251         .00091         .04267         23.488         55,           .0427         .04271         .00091         .04267         23.433         54,           .0428         .04281         .00091         .04267         23.433         54,           .0432         .04291         .00092         .04277         23.379         54,           .0433         .04331         .0431         .00091         .									
.0419         .04191         .00088         .04188         23.880         56,           0.0420         0.04201         10,0         1.00088         0,4         0.04198         10,0         23.824         56,           .0421         .04211         .00089         .04217         23.767         56,           .0422         .04221         .00089         .04217         23.711         56,           .0423         .04241         .00090         .04237         23.655         55,           .0424         .04241         .00090         .04237         23.599         55,           .0426         .04261         .00091         .04257         23.488         55,           .0427         .04261         .00091         .04267         23.433         54,           .0428         .04281         .00092         .04267         23.433         54,           .0429         .04281         .00092         .04267         23.379         54,           .0431         .04311         .00093         .04307         10,0         23.270         54,           .0432         .04331         .00093         .04317         23.103         53,           .0433         .		' '-							
0.0420         0.04201         10,0         1.00088         0,4         0.04198         10,0         23.824         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.767         56, 23.711         56, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791         54, 23.791									57,2
.0421	.0419	.04191		.00088		.04188		23.880	50,9
.0422	0.0420	0.04201	10,0	_	0,4		10,0		56,
.0423			-			.04208			56,4
.0424	-	.04221				.04217		23.711	56,1
.0424         .04241         .00090         .04237         23.599         55,           0.0425         0.04251         10,0         1.00090         0,4         0.04247         10,0         23.544         55,           .0426         .04261         .00091         .04257         23.488         55,           .0427         .04271         .00092         .04267         23.379         54,           .0429         .04291         .00092         .04287         23.324         54,           0.0430         .04301         10,0         1.00092         0,4         0.04297         10,0         23.270         54,           .0431         .04311         .00093         .04317         23.163         53,         0431         53,           .0432         .04321         .00093         .04317         23.109         53,           .0434         .04341         .00094         .04327         23.003         52,           .0435         .04361         .00095         .04367         22.808         52,           .0437         .04371         .00095         .04367         22.808         52,           .0437         .04381         .00096         .04377 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>.04227</td><td></td><td></td><td>55,9</td></td<>						.04227			55,9
.0426	.0424	.04241		.00090		.04237		23.599	55,6
.0427			10,0		0,4		10,0		55,3
.0428					'				55,
.0429         .04291        00092         .04287         23.324         54,           0.0430         0.04301         10,0         1.00092         0,4         0.04297         10,0         23.270         54,           .0431         .04311         .00093         .04307         23.216         53,           .0432         .04321         .00093         .04317         23.163         53,           .0433         .04331         .00094         .04327         23.109         53,           .0434         .04341         .00094         .04337         10,0         23.003         52,           .0435         .04351         10,0         1.00095         0,4         0.04347         10,0         23.003         52,           .0436         .04361         .00095         .04357         22.950         52,           .0437         .04371         .00095         .04367         22.898         52,           .0438         .04381         .00096         .04377         22.846         52,           .0441         .04411         .04411         .00096         .04397         10,0         22.742         51,           .0442         .04421         .00098 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>54,8</td></t<>									54,8
0.0430         0.04301         10,0         1.00092         0,4         0.04297         10,0         23.270         54,0431           0.0431         0.04321         0.0093         0.04317         23.163         53,0431         53,04331         0.0094         0.04327         23.109         53,04337         23.056         53,04337         0.04351         10,0         1.00095         0,4         0.04347         10,0         23.003         52,0436         0.04361         0.00095         0.04357         22.950         52,0437         0.04371         0.00095         0.04367         22.898         52,0437         0.04387         22.898         52,0439         0.04391         0.00096         0.04377         0.04367         22.898         52,0439         0.04391         0.00096         0.04387         0.04387         22.794         51,0439         0.0440         0.04401         10,0         1.00097         0,4         0.04397         10,0         22.742         51,04417         0.0441         0.0441         0.04421         0.00098         0.04417         0.04407         22.639         51,04417         0.04427         22.588         50,04447         0.04437         0.04437         0.04437         0.04437         0.04437         0.04437         0.04437 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td> </td><td></td><td>54,6</td></t<>									54,6
.0431 .04311 .00093 .04307 .23.216 .53, .0432 .04321 .00093 .04317 .23.163 .53, .0433 .04331 .00094 .04337 .23.109 .53, .0434 .04341 .00094 .04337 .04337 .23.056 .53, .0435 .04351 .00095 .04357 .04357 .22.950 .52, .0437 .0437 .04371 .00095 .04367 .22.898 .52, .0438 .04381 .00096 .04377 .22.846 .52, .0439 .04391 .00096 .04387 .22.846 .52, .0439 .04391 .00096 .04387 .22.846 .52, .0439 .04391 .00096 .04417 .22.630 .51, .0441 .04411 .04411 .00097 .04407 .04477 .22.630 .51, .0443 .04431 .00098 .04427 .22.588 .50, .04437 .04441 .04441 .00099 .00099 .04437 .04437 .22.537 .50, .0446 .04461 .04441 .00099 .00099 .04437 .04437 .22.537 .50, .0446 .04461 .04441 .00099 .00099 .04467 .04457 .04461 .04441 .04441 .00099 .00099 .04467 .04467 .04461 .04461 .04461 .00099 .04467 .04467 .04461 .04461 .00099 .04467 .04467 .04471 .04471 .00099 .04467 .04467 .04461 .04481 .00100 .04467 .04467 .04471 .04491 .00100 .04467 .04467 .04471 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04467 .04491 .00100 .04467 .04467 .04491 .00100 .04467 .04467 .04467 .04491 .00100 .00101 .004487 .004487 .00100 .004487 .00100 .004487 .00100 .004487 .00100 .00101 .004487 .00100 .004487 .00100 .00101 .004487 .00100 .004487 .00100 .00101 .004487 .00100 .00101 .00100 .004487 .00100 .00101 .00100 .004487 .00100 .00101 .00100 .004487 .00100 .00101 .00100 .004487 .00100 .00101 .00100 .004487 .00100 .00101 .00100 .00101 .00100 .00101 .00100 .00101 .001000 .0010000 .001000 .001000 .001000 .001000 .001000 .001000 .001000 .001000 .001000 .001000 .001000 .001	.0429	.04291	,	.00092		.04287		23.324	54,3
.0432			10,0		0,4		10,0		54,9
.0433									
.0434         .04341         .00094         .04337         23.056         53.           0.0435         0.04351         10,0         1.00095         0,4         0.04347         10,0         23.003         52.           .0436         .04361         .00095         .04357         22.950         52.           .0437         .04371         .00095         .04367         22.898         52.           .0438         .04381         .00096         .04377         22.846         52.           .0439         .04391         .00096         .04387         22.794         51.           0.0440         0.04401         10,0         1.00097         0,4         0.04397         10,0         22.742         51.           0.0441         .04411         .00097         .04407         .04407         22.639         51.           .0442         .04421         .00098         .04427         22.588         50.           .0443         .04431         .00098         .04427         22.588         50.           .0444         .04441         .00099         .04437         10,0         22.487         50.           .0445         .04461         .00461         .0009							1		53,6
0.0435         0.04351         I0,0         I.00095         0,4         0.04347         I0,0         23.003         52,0436           .0437         .04371         .00095         .04367         22.868         52,0438         52,0438         52,0438         52,0438         52,0438         52,0438         52,0439         63,77         22.846         52,0439         63,77         22.846         52,0439         63,77         22.846         52,0439         63,77         63,77         51,0443         63,77         63,77         51,0443         63,77					1				53,3
.0436         .04361         .00095         .04357         22.950         52.0005           .0437         .04371         .00095         .04367         22.898         52.0006           .0438         .04381         .00096         .04377         22.846         52.0006           .0439         .04391         .00096         .04387         22.794         51.0009           .0440         .04401         IO,0         1.00097         0,4         0.04397         IO,0         22.742         51.0009           .0441         .04411         .00098         .04417         22.639         51.0009         51.0009           .0443         .04441         .00098         .04427         22.588         50.0009           .0444         .04441         .00099         .04437         22.587         50.0009           0.0445         0.04451         IO,0         I.00099         0,4         0.04447         IO,0         22.487         50.0009           0.0446         .04467         .04471         .00100         .04457         22.386         50.0009           .0448         .04481         .00100         .04467         22.386         50.0000           .0448         .04490         <	.0434	.04341	* 1	.00094		.04337		23.050	53,1
.0437			10,0		0,4		10,0		52,8
.0438         .04381         .00096         .04377         22.846         52, 04397           0.0440         .04401         I0,0         1.00097         0,4         0.04397         I0,0         22.742         51, 0441           .0441         .04411         .00097         .04407         .04407         22.690         51, 04417         22.639         51, 04417         22.639         51, 04417         22.639         51, 04417         22.588         50, 04447         22.537         50, 04437         22.537         50, 04437         22.537         50, 04437         22.537         50, 04437         22.487         50, 04437         22.486         50, 04457         22.436         50, 04457         22.436         50, 04457         22.436         50, 04467         22.386         50, 04467         22.386         50, 04467         22.386         50, 04467         22.336         49, 04492         30, 04497         22.336         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         22.287         49, 04487         2									
.0439         .04391         .00096         .04387         22.794         51           0.0440         0.04401         IO,0         1.00097         0,4         0.04397         IO,0         22.742         51           .0441         .04411         .00097         .04407         22.690         51           .0442         .04421         .00098         .04417         22.639         51           .0443         .04431         .00098         .04427         22.588         50           .0444         .04441         .00099         .04437         22.537         50           0.0445         0.04451         IO,0         I.00099         0,4         0.04447         IO,0         22.487         50           .0446         .04461         .00099         .04457         22.436         50           .0447         .04471         .00100         .04467         22.386         50           .0448         .04481         .00100         .04477         22.336         49           .0449         .04492         .00101         .04487         22.287         49									
0.0440       0.0440I       10,0       1.00097       0,4       0.04397       10,0       22.742       51,00097       51,00097       51,04407       22.690       51,04407       22.690       51,04417       22.6339       51,04417       22.588       50,04427       22.588       50,04427       22.588       50,04427       22.588       50,04437       22.537       50,04437       22.537       50,04437       22.487       50,04437       50,04457       22.487       50,04457       50,04457       22.486       50,04457       50,04457       22.436       50,04457       50,04457       22.436       50,04457       50,04457       22.336       50,04457       50,04457       22.336       50,04457       50,04457       22.336       50,04457       50,04457       22.336       50,04457       50,04457       22.336       50,04457       50,04457       22.336       49,04457       50,04457       22.336       49,04457       50,04457       22.287       49,0457       50,04457       22.287       49,0457       50,04457       22.287       49,0457       50,04457       50,04457       22.287       49,0457       50,04457       50,04457       50,04457       50,04457       22.287       49,0457       50,04457       50,04457       50,04457       50,04457       50,							[ ]		
.0441         .04411         .00097         .04407         22.690         51           .0442         .04421         .00098         .04417         22.639         51           .0443         .04431         .00098         .04427         22.588         50           0.0444         .04441         .00099         .04437         22.537         50           0.0445         0.04451         10,0         1.00099         0,4         0.04447         10,0         22.487         50           .0446         .04461         .00099         .04457         .04457         22.436         50           .0448         .04481         .00100         .04477         22.386         50           .0449         .04492         .00101         .04487         22.386         49           .0448         .04492         .00101         .04487         22.287         49	.0439	.04391		.00090		10430/		22./94	
.0442       .04421       .00098       .04417       22.639       51, 04427         .0443       .04431       .00098       .04427       22.588       50, 04427         .0444       .04441       .00099       .04437       22.537       50, 04437         0.0445       0.04451       10,0       1.00099       0,4       0.04447       10,0       22.487       50, 04457         .0446       .04471       .00100       .04467       22.386       50, 04467         .0448       .04481       .00100       .04477       22.336       49, 04487         .0449       .04492       .00101       .04487       22.287       49, 049, 049, 049, 049, 049, 049, 049, 0			10,0		0,4		10,0		51,0
.0443       .04431       .00098       .04427       22.588       50         .0444       .04441       .00099       .04437       22.588       50         0.0445       0.04451       10,0       1.00099       0,4       0.04447       10,0       22.487       50         .0446       .04461       .00099       .04457       .04457       22.436       50         .0447       .04471       .00100       .04467       22.386       50         .0448       .04481       .00100       .04477       22.336       49         .0449       .04492       .00101       .04487       22.287       49							ļ.,		51,
.0444 .04441 .00099 .00099 .04437 .22.537 .50 0.0445 0.04451 10,0 1.00099 0,4 0.04447 10,0 22.487 50 .0446 .04461 .00099 .00457 .22.436 50 .0447 .04471 .00100 .04467 .22.386 50 .0448 .04481 .00100 .04477 .22.336 49 .0449 .04492 .00101 .04487 .22.287 49						l			
0.0445     0.04451     10,0     1.00099     0,4     0.04447     10,0     22.487     50,       .0446     .04467     .04457     22.436     50,       .0447     .04471     .00100     .04467     22.386     50,       .0448     .04481     .00100     .04477     22.336     49,       .0449     .04492     .00101     .04487     22.287     49,				-		I .		- 1	50,9
.0446     .04461     .00099     .04457     22.436     50,       .0447     .04471     .00100     .04467     22.386     50,       .0448     .04481     .00100     .04477     22.336     49,       .0449     .04492     .00101     .04487     22.287     49,		.04441	-						50,
.0447 .04471 .00100 .04467 .22.386 50, .0448 .0449 .00101 .00101 .04487 .22.287 49,			10,0		0,4		10,0		50,
.0448									50,
.0449 .04492 .00101 .04487 22.287 49,				1			].		50,0
									49,0 49,0
			10,0	1.00101	0,5		10,0		49,
u tangdu ω Fo' sec gdu ω Fo' singdu ω Fo' csc gdu ω Fo'		tan od u	ω F <sub>0</sub> '	sec ad u	ω F <sub>0</sub> ′	sin ad u	ω F <sub>0</sub> ′	csc ad u	ω Fα'

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω Fo'	tanh u	ω F₀′	coth u	ω F₀′
0.0450	0.04502	10,0	1.00101	0,5	0.04497	10,0	22.237	49,3
.0451	.04512	,-	.00102	,0	.04507		22.188	49,1
.0452	.04522		.00102		.04517		22.139	48,9
.0453	.04532		.00103		.04527		22.090	48,7
	.04542		.00103		.04537		22.042	48,5
.0454						·		
0.0455 .0456	0.04552 .04562	10,0	.00104	0,5	0.04547	10,0	21.993 21.945	48,3 48,1
	.04572		00104		.04567		21.897	47,8
.0457	.045/2	İ	.00104				21.849	47,6 47,6
			.00105		.04577		21.802	47,0
.0459	.04592		.00105		.04507		21.002	47,4
0.0460	0.04602	10,0	1.00106 .00106	0,5	0.04597 .04607	10,0	21.754 21.707	47,2 47,0
.0461	.04612			·			21.660	46,8
.0462	.04622	*	.00107		.04617	1		40,6 46,6
.0463	.04632		.00107		.04627		21.614	
.0464	.04642		.00108		.04637		21.567	46,4
0.0465	0.04652	10,0	80100.1	0,5	0.04647	10,0	21.521	46,2
.0466	.04662		.00100		04657		21.475	46,0
.0467 .0468	.04672		.00100		.04667 .04677		21.429	45,8
	04682		.00110				21.383	45,6
.0469	.04692		.00110		.04687		21.338	45,4
0.0470	0.04702	10,0	1.00110	0,5	0.04697 .04707	10,0	21.292 21.247	45,2 45,0
.0471	.04712		11100.		.04707		21.24/	45,0
.0472	.04722		.00111				21.157	44,9
.0473	.04732				.04726			44,7
.0474	.04742		.00112		.04736		21.113	44,5
0.0475	0.04752	10,0	1.00113	0,5	0.04746 .04756	10,0	21.068 21.024	44.3
.0476	.04762		.00113					44,I
.0477	.04772		.00114		.04766		20.980	43,9
.0478	.04782		.00114		.04776		20.936	43,7
.0479	.04792		.00115		.04786		20.893	43,6
0.0480	0.04802	10,0	1.00115	0,5	0.04796	10,0	20.849	43,4
.0481	.04812		.00116		.04806		20.806	43,2
.0482	.04822		.00116		.04816		20.763	43,0
.0483	.04832		.00117		.04826		20.720	42,8
.0484	.04842	·	.00117		.04836		20.677	42,7
0.0485	0.04852	10,0	1.00118	0,5	0.04846	10,0	20.635	42,5
.0486	.04862	,	81100		.04856 .04866		20.592	42,3
.0487	.04872		.00119	•	.04800		20.550	42,I
.0488	.04882		.00110				20.508	42,0
.0489	.04892		.00120		.04886		20.466	41,8
0.0490	0.04902	10,0	1.00120	0,5	0.04896 .04906	10,0	20.424 20.383	41,6
.0491			1 1 1 1		.04906		20.342	41,4
.0492	.04922		.00121		.04910		20.342	41,3
.0493	.04932		.00122				20.259	41,1
.0494	.04942			,	.04936			40,9
0.0495	0.04952	10,0	1.00123	0,5	0.04946	10,0	20.219	40,8
.0496	.04962		.00123	'	.04956		20.178	40,6
.0497	.04972		.00124		.04966		20.137	40,5
.0498	.04982		.00124		.04976		20.097	40,3
.0499	.04992		.00125		.04986		20.057	40,1
0.0500	0.05002	10,0	1.00125	0,5	0.04996	10,0	20.017	40,0
u	tan gd u	ω F <sub>0</sub> '	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	₩ F <sub>0</sub> '

u	sinh u	ω F₀′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	<b>∞ F</b> ₀′
0.0500	0.05002	10,0	1.00125	0,5	0.04996	10,0	20.017	40,
.0501	.05012	7.17	.00126		.05006		19.977	39,
.0502	.05022		.00126		.05016		19.937	39,
.0503	.05032		.00127		.05026		19.897	39,
.0504	.05042		.00127		.05036		19.858	39,
0.0505	0.05052	10,0	1.00128	0,5	0.05046	10,0	19.819	39
.0506	.05062		4 1 1		.05056	· .	19.780	39, 38,
.0507	.05072		.00129		.05066 .05076		19.741 19.702	38,
.0509	.05002		.00129		.05086		19.663	38
0.0510	0.05102	10,0	1.00130	0,5	0.05096	10,0	19.625	38
.0511	.05112	10,0	.00130	0,5	.05106	10,0	19.587	38.
.0512	.05122		.00131		.05116	I	19.548	38,
.0513	.05132		.00132		.05126	. [	19.510	38
.0514	.05142		.00132		.05135		19.472	37
0.0515	0.05152	10,0	1.00133	0,5	0.05145	10,0	19.435	37
.0516	.05162		.00133	-,0	.05155	,-	19.397	37
.0517	.05172		.00134		.05165		19.360	37
.0518	.05182		.00134		.05175		19.322	37
.0519	.05192		.00135	ļ.	.05185		19.285	37
0.0520	0.05202	10,0	1.00135	0,5	0.05195	10,0	19.248	36,
.0521	.05212		.00136		.05205		19.211	36
.0522	.05222		.00136		.05215	1	19.174	36,
.0523	.05232		.00137		.05225		19.138	36
.0524	.05242		.00137		.05235		19.101	<b>3</b> 6,
0.0525	0.05252	10,0	1.00138	0,5	0.05245	10,0	19.065	36
.0526	.05262		.00138		.05255		19.029	36,
.0527	.05272		.00139		.05265		18.993 18.957	36, 35
.0529	05292		.00140		05285	•	18.921	35
0.0530	0.05302	10,0	1.00140	0,5	0.05295	10,0	18.886	35
.0531	.05312	,-	00141	-,5	.05305	-0,0	18.850	35
.0532	.05323		.00142		.05315		18.815	35
.0533	.05333		00142		.05325		18.779	35
.0534	.05343		.00143	·	05335		18.744	35
0.0535	0.05353	10,0	1.00143	0,5	0.05345	10,0	18.709	34
.0536	.05363		.00144		.05355	5.4	18.675	34
.0537	.05373		.00144		.05365		18.640	34
.0538	.05383		.00145	#1	.05375	9.76	18.605	34
.0539	.05393		.00145	V 1 1 1	.05385		18.571	34
0.0540	0.05403	10,0	1.00146	0,5	0.05395	10,0	18.537	34
.0541	.05413		.00146		.05405		18.502	34
.0542	.05423		.00147	,	.05415		18.468	34
.0543	.05433 .05443		.00147		.05425 .05435		18.434 18.400	33 33
		10,0	1.00149	0,5	0.05445	10,0	18.367	33
0.0545	0.05453 .05463	10,0	.00149	0,5	.05455	10,0	18.333	33
.0547	.05473		.00150	-	05465		18.300	33
.0548	.05483		.00150		.05475		18.266	33
0549	05493		.00151	es Til	.05484		18.233	33
0.0550	0.05503	10,0	1.00151	0,6	0.05494	10,0	18.200	33
	tan gd u	ω Fo'	sec gd u	ω F <sub>0</sub> ′.	sin gđu	ω F <sub>0</sub> ′	ese gd u	ω Fo'

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	w <b>F</b> ₀′
0.0550 .0551 .0552 .0553 .0554	0.05503 .05513 .05523 .05533 .05543	10,0	1.00151 .00152 .00152 .00153 .00153	0,6	0.05494 .05504 .05514 .05524 .05534	10,0	18.200 18.167 18.134 18.102 18.069	33,0 32,9 32,8 32,7 32,5
0.0555 .0556 .0557 .0558 .0559	0.05553 .05563 .05573 .05583 .05593	10,0	1.00154 .00155 .00155 .00156	0,6	0.05544 .05554 .05564 .05574 .05584	10,0	18.037 18.004 17.972 17.940 17.908	32,4 32,3 32,2 32,1 32,0
0.0560 .0561 .0562 .0563 .0564	0.05603 .05613 .05623 .05633 .05643	10,0	1.00157 .00157 .00158 .00159 .00159	<b>0,</b> 6	② 05594 .05604 .05614 .05624 .05634	10,0	17.876 17.844 17.812 17.781 17.749	31,9 31,7 31,6 31,5 31,4
0.0565 .0566 .0567 .0568 .0569	0.05653 .05663 .05673 .05683 .05693	10,0	1.00160 .00160 .00161 .00161 .00162	0,6	0.05644 .05654 .05664 .05674 .05684	10,0	17.718 17.687 17.656 17.625 17.594	31,3 31,2 31,1 31,0 30,9
0.0570 .0571 .0572 .0573 .0574	0.05703 .05713 .05723 .05733 .05743	10,0	1.00162 .00163 .00164 .00164 .00165	0,6	0.05694 .05704 .05714 .05724 .05734	10,0	17.563 17.532 17.502 17.471 17.441	30,7 30,6 30,5 30,4 30,3
0.0575 .0576 .0577 .0578 .0579	0.05753 .05763 .05773 .05783 .05793	10,0	1.00165 .00166 .00167 .00167 .00168	0,6	0.05744 .05754 .05764 .05774 .05784	10,0	17.410 17.380 17.350 17.320 17.290	30,2 30,1 30,0 29,9 29,8
0.0580 .0581 .0582 .0583 .0584	0.05803 .05813 .05823 .05833 .05843	10,0	1.00168 .00169 .00169 .00170	0,6	0.05794 .05803 .05813 .05823 .05833	10,0	17.261 17.231 17.202 17.172 17.143	29,7 29,6 29,5 29,4 29,3
0.0585 .0586 .0587 .0588 .0589	0.05853 .05863 .05873 .05883 .05893	10,0	1.00171 .00172 .00172 .00173 .00174	0,6	0.05843 .05853 .05863 .05873 .05883	10,0	17.114 17.084 17.055 17.026 16.998	29,2 29,1 29,0 28,9 28,8
0.0590 .0591 .0592 .0593 .0594	0.05903 .05913 .05923 .05933 .05943	10,0	1.00174 .00175 .00175 .00176 .00176	<b>0,</b> 6	0.05893 .05903 .05913 .05923 .05933	10,0	16.969 16.940 16.912 16.883 16.855	28,7 28,6 28,5 28,4 28,3
0.0595 .0596 .0597 .0598 .0599	0.05954 .05964 .05974 .05984 .05994	10,0	1.00177 .00178 .00178 .00179 .00179	0,6	0.05943 .05953 .05963 .05973 .05983	10,0	16.827 16.798 16.770 16.742 16.714	28,2 28,1 28,0 27,9 27,8
0.0600	0.06004	10,0	1.00180	0,6	0.05993	10,0	16.687	27,7
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> /

$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	⇔ F₀′	coth u	ω F <sub>0</sub> ′
.0606	.0601 .0602 .0603	.06014 .06024 .06034	10,0	.00181 .00181 .00182	0,6	.06003 .06013 .06023	10,0	16.659 16.631 16.604	27,7 27,6 27,5
0.611	.0606 .0507 .0508	.06064 .06074 .06084	10,0	.00184 .00184 .00185	<b>0,</b> 6	.06053 .06063 .06073	10,0	16.522 16.495 16.468	27,2 27,1 27.0
0.616	.0611 .0612 .0613	.06114 .06124 .06134	10,0	.00187 .00187 .00188	0,6	.06102 .06112 .06122	10,0	16.387 16.360 16.334	26,8 26,7 26,6
.0621	.0616 .0617 .0618	.06164 .06174 .06184	10,0	.00190	<b>0,</b> 6	.06152 .06162 .06172	10,0	16.254 16.228 16.202	26,3 26,2 26,1
.0626	.0621 .0622 .0623	.06214 .06224 .06234	10,0	.00193 .00194 .00194	<b>0,</b> 6	.06202 .06212 .06222	10,0	16.124 16.098 16.072	25,9 25,8 25,7
.0631	.0626 .0627 .0628	.06264 .06274 .06284	10,0	.00196	<b>0,</b> 6	.06252 .06262 .06272	10,0	15.995 15.970 15.944	25,5 25,4 25,3
.0636         .06364         .00202         .06351         I5.744         24,7           .0637         .06374         .00203         .06361         I5.720         24,6           .0638         .06384         .00204         .06371         I5.695         24,5           .0639         .06394         .00204         .06381         I5.695         24,5           0.0640         0.06404         I0,0         I.00205         0,6         0.06391         I0,0         I5.646         24,4           .0641         .06414         .00206         .06401         I5.622         24,3           .0642         .06424         .00206         .06411         I5.598         24,2           .0643         .06434         .00207         .06421         I5.574         24,2           .0644         .06444         .00207         .06431         I5.549         24,1           0.0645         0.06454         I0,0         I.00208         0,6         0.06441         I0,0         I5.525         24,0           .0647         .06464         .00209         .06451         I5.501         23,9           .0648         .06485         .00210         .06471         I5.430         23,7 </th <td>.0631 .0632 .0633</td> <td>.06314 .06324 .06334</td> <td>10,0</td> <td>.00199 .00200 .00200</td> <td>0,6</td> <td>.06302 .06312 .06322</td> <td>10,0</td> <td>15.869 15.844 15.819</td> <td>25,1 25,0</td>	.0631 .0632 .0633	.06314 .06324 .06334	10,0	.00199 .00200 .00200	0,6	.06302 .06312 .06322	10,0	15.869 15.844 15.819	25,1 25,0
.0641       .06414       .00206       .06401       15.622       24,3         .0642       .06424       .00206       .06411       15.598       24,2         .0643       .06434       .00207       .06421       15.574       24,2         .0644       .06444       .00207       .06431       15.549       24,1         0.0645       0.06454       10,0       1.00208       0,6       0.06441       10,0       15.525       24,0         .0646       .06464       .00209       .06451       15.501       23,9         .0647       .06475       .00209       .06461       15.478       23,9         .0648       .06485       .00210       .06471       15.454       23,8         .0649       .06495       .00211       .06481       15.430       23,7	.0636 .0637 .0638	.06364 .06374 .06384	10,0	.00202 .00203 .00204	0,6	.06351 .06361 .06371	10,0	15.744 15.720 15.695	24,7 24,6 24,5
.0646     .06464     .00209     .06451     15.501     23,9       .0647     .06475     .00209     .06461     15.478     23,9       .0648     .06485     .00210     .06471     15.454     23,8       .0649     .06495     .00211     .06481     15.430     23,7	.0641 .0642 .0643	.06414 .06424 .06434	10,0	.00206 .00206 .00207	<b>0,</b> 6	.06401 .06411 .06421	10,0	15.622 15.598 15.574	
0.0650 0.06505 10.0 1.00211 0.7 0.06401 10.0 15.406 23.6	.0646 .0647 .0648	.06464 .06475 .06485	10,0	.00209 .00209 .00210	0,6	.06451 .06461 .06471 .06481	10,0	15.501 15.478 15.454	24,0 23,9 23,9 23,8 23,7
u tangdu ω Fo' sec gdu ω Fo' sin gdu ω Fo' csc gdu ω Fo'	0.0650	0.06505	10,0 ω F <sub>0</sub> '	1.002II	0,7 ω F <sub>0</sub> '	0.06491	10,0 ω F <sub>0</sub> /	15.406	23,6 w Fo'

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u 🙉	ω F <sub>0</sub> ′	coth u	ω F₀′
0.0650	0.06505	10,0	1.00211	0,7	0.06491	10,0	15.406	23,6
.0651	.06515	10,0	.00212	- "	.06501	20,0	15.383	23,6
.0652	.06525	·	.00213		.06511	ļ	15.359	23,5
.0653	.06535	1	.00213		.06521		15.336	23,4
.0654		١ أ	.00213		.06531		15.312	23,3
i	.06545							
0.0655 .0656	0.06555	10,0	.00215	0,7	0.06541 .06551	10,0	15.289 15.266	23,3 23,2
.0657	.06575		.00215		.06561	1	15.243	23,1
.0658	.06585		.00217		.06571		15.219	23,1
.0659	.06595		.00217		.06580		15.196	23,0
.0660	0.06605	10,0	1.00218	0,7	0.06590	10,0	15.174	22,9
.0661	.06615	10,0	.00219	-77	.06600	,-	15.151	22,9
.0662	.06625	1	.00219		.06610		15.128	22,8
.0663	.06635		.00220		.06620		15.105	22,7
0664	.06645		.00221		.06630		15.082	22,6
0.0665	0.06655	10,0	1.00221	0,7	0.06640	10,0	15.060	22,6
.0666	.06665		.00222		.06650		15.037	22,5
.0667	.06675	-	.00223		.06660		15.015	22,4
.0668	.06685		.00223		.06670		14.992	22,4
.0669	.06695		.00224		.06680		14.970	22,3
0.0670	0.06705	10,0	1.00225	0,7	0.06690	10,0	14.948	22,2
.0671	.06715		.00225	ٔ ،	.06700	,	14.925	22,2
.0672	.06725		.00226		<b>.0</b> 6710		14.903	22,1
.0673	.06735		.00227		.06720		14.881	22,0
.0674	.06745		.00227		<b>.0</b> 6730	,	14.859	22,0
0.0675	0.06755	10,0	1.00228	0,7	0.06740	10,0	14.837	21,9
.0676	.06765		.00229		.06750		14.815	21,8
.0677	.06775	1.88 1 1	.00229		.06760		14.794	21,8
.0678	.06785	retelevi.	.00230	. 98 1 . let	.06770		14.772	21,7
.0679	.06795	HALI	.00231	Patential State of the	.06780	a minor	14.750	21,7
0.0680	0.06805	10,0	1.00231	0,7	0.05790	10,0	14.729	21,6
.0681	.06815	100,000	.00232	-	.06799		14.707	21,5
.0682	.06825	1	.00233	A 41 A 1	.06809		14.685	21,5
.0683	.06835		.00233	1-11	.06819		14.664	21,4
.0684	.06845		.00234		.06829	11.	14.643	21,3
0.0685	0.06855	10,0	1.00235	. 0,7	0.06839	10,0	14.621	21,3
.0686	.06865	1977 - March	.00235		.06849		14.600	21,2
.0687	-06875	100	.00236		.06859	1 2 20 20	14.579	21,2
.0688	.06885		.00237		.06869		14.558	21,1
.0689	.06895		.00237		.06879		14.537	21,0
0.0690	0.06905	10,0	1.00238	0,7	0.06889	10,0	14.516	21,0
.0691	.06916	1 1 1 1	.00239	East 1	.06899		14.495	20,9
.0692	.06926	11.37	.00240		06909		14.474	20,8 20,8
.0693	.06936		.00240	transition in	.06919	last to the	14.453	
<b>.0</b> 694	<b>.0</b> 6946		.00241		.06929		14.432	20,7
0.0695	0.06956	10,0	1.00242	0,7	0.06939	10,0	14.412	20,7 20,6
.0696	.06966	1	.00242	<u> </u>	.05949		14.391	
.0697	.06976	1 (5%)	.00243		.06959	1	14.370	20,6 20,5
.0698 .0699	.06986		.00244		.00939		14.350 14.329	20,5
0.0700	0.07006	10,0	1.00245	0,7	0.05989	10,0	14.309	20,4
		-	AND COLUMN STATE OF STATE	E-14-625	-		<del></del>	ω F₀′
u	tan gd u	⊌ F₀′	sec gd u	<b>ω F</b> ₀′	sin gd u	ω F <sub>0</sub> ′	csc gd u	w <b>r</b> o

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.0700 .0701 .0702 .0703 .0704	0.07006 .07016 .07026 .07036 .07046	10,0	1.00245 .00246 .00247 .00247 .00248	0,7	0.06989 .06999 .07008 .07018 .07028	10,0	14.309 14.289 14.268 14.248 14.228	20,4 20,3 20,3 20,2 20,1
0.0705 .0706 .0707 .0708 .0709	0.07056 .07056 .07076 .07086 .07096	10,0	1.00249 .00249 .00250 .00251 .00251	0,7	0.07038 .07048 .07058 .07068 .07078	10,0	14.208 14.188 14.168 14.148 14.128	20,1 20,0 20,0 19,9 19,9
0.0710 .0711 .0712 .0713 .0714	0.07106 .07116 .07126 .07136	10,0	1.00252 .00253 .00254 .00254 .00255	0,7	0.07088 .07098 .07108 .07118 .07128	9,9	14.108 14.088 14.069 14.049 14.029	19,8 19,7 19,7 19,6 19,6
0.0715 .0716 .0717 .0718 .0719	0.07156 .07166 .07176 .07185	10,0	1.00256 .00256 .00257 .00258 .00259	0,7	0.07138 .07148 .07158 .07168 .07178	9,9	14.010 13.990 13.971 13.952 13.932	19,5 19,5 19,4 19,4
0.0720 .0721 .0722 .0723 .0724	0.07205 .07216 .07226 .07236 .07246	10,0	1.00259 .00260 .00261 .00261 .00262	0,7	0.07188 .07198 .07207 .07217 .07227	<b>9,9</b>	13.913 13.894 13.874 13.855 13.836	19,3 19,2 19,2 19,1 19,0
0.0725 .0726 .0727 .0728 .0729	0.07256 .07266 .07276 .07286 .07295	10,0	1.00263 .00264 .00264 .00265 .00266	0,7	0.07237 .07247 .07257 .07267 .07277	9,9	13.817 13.798 13.779 13.761 13.742	19,0 18,9 18,9 18,8
0.0730 .0731 .0732 .0733 .0734	0.07306 .07317 .07327 .07337 .07347	10,0	1.00267 .00267 .00268 .00269 .00269	0,7	0.07287 .07297 .07307 .07317 .07327	9,9	13.723 13.704 13.686 13.667 13.648	18,7 18,7 18,6 18,6 18,5
0.0735 .0736 .0737 .0738 .0739	0.07357 .07367 .07377 .07387 .07397	10,0	1.00270 .00271 .00272 .00272 .00273	0,7	0.07337 .07347 .07357 .07367 .07377	9,9	13.630 13.611 13.593 13.575 13.556	18,5 18,4 18,4 18,3 18,3
0.0740 .0741 .0742 .0743 .0744	0.07407 .07417 .07427 .07437 .07447	10,0	1.00274 .00275 .00275 .00276 .00277	0,7	0.07387 .07396 .07405 .07416 .07426	9,9	13.538 13.520 13.502 13.484 13.466	18,2 18,2 18,1 18,1 18,0
0.0745 .0746 .0747 .0748 .0749	0.07457 .07467 .07477 .07487 .07497	10,0	1.00278 .00278 .00279 .00280 .00281	0,7	0.07435 .07446 .07456 .07466 .07476	9,9	13.448 13.430 13.412 13.394 13.376	18,0 17,9 17,9 17,8 17,8
0.0750	0,07507	10,0	1.00281	0,8	0.07485	9,9	13.358	17,7
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω Fo'

u	sinh u	ω F₀′	cosh u	ω F <sub>0</sub> ′	tanh u	⊌ Fo′	coth u	ω F <sub>0</sub> ′
0.0750 .0751 .0752 .0753 .0754	0.07507 .07517 .07527 .07537 .07547	10,0	1.00281 .00282 .00283 .00284 .00284	0,8	0.07486 .07496 .07506 .07516 .07526	9,9	13.358 13.341 13.323 13.305 13.288	17,7 17,7 17,7 17,6 17,6
0.0755 .0756 .0757 .0758 .0759	0.07557 .07567 .07577 .07587 .07597	10,0	1.00285 .00286 .00287 .00287 .00288	0,8	0.07536 .07546 .07556 .07566 .07575	9,9	13.270 13.253 13.235 13.218 13.201	17,5 17,5 17,4 17,4 17,3
0.0760 .0761 .0762 .0763 .0764	0.07607 .07617 .07627 .07637 .07647	10,0	1.00289 .00290 .00290 .00291 .00292	0,8	0.07585 .07595 .07605 .07615 .07625	9,9	13.183 13.166 13.149 13.132 13.114	17,3 17,2 17,2 17,1 17,1
0.0765 .0766 .0767 .0768 .0769	o.o7657 .o7667 .o7678 .o7688 .o7698	10,0	1.00293 .00294 .00294 .00295 .00296	0,8	0.07635 .07645 .07655 .07665 .07675	9,9	13.097 13.080 13.063 13.046 13.030	17,1 17,0 17,0 16,9 16,9
0.0770 .0771 .0772 .0773	0.07708 .07718 .07728 .07738 .07748	10,0	1.00297 .00297 .00298 .00299 .00300	0,8	0.07685 .07695 .07705 .07715 .07725	9,9	13.013 12.996 12.979 12.962 12.946	16,8 16,8 16,7 16,7
0.0775 .0776 .0777 .0778 .0779	o.07758 .07768 .07778 .07788 .07798	10,0	1.00300 .00301 .00302 .00303 .00304	0,8	0.07735 .07744 .07754 .07764 .07774	9,9	12.929 12.912 12.896 12.879 12.863	16,6 16,6 16,5 16,5
0.0780 .0781 .0782 .0783 .0784	0.07808 .07818 .07828 .07838 .07848	10,0	1.00304 .00305 .00306 .00307	0,8	0.07784 .07794 .07804 .07814 .07824	9,9	12.847 12.830 12.814 12.797 12.781	16,4 16,4 16,3 16,3 16,2
0.0785 .0786 .0787 .0788 .0789	0.07858 .07868 .07878 .07888 .07898	10,0	1.00308 .00309 .00310 .00311	0,8	0.07834 .07844 .07854 .07864 .07874	9,9	12.765 12.749 12.733 12.717 12.701	16,2 16,2 16,1 16,1 16,0
0.0790 .0791 .0792 .0793 .0794	0.07908 .07918 .07928 .07938 .07948	10,0	1.00312 .00313 .00314 .00315	o,8	0.07884 .07894 .07903 .07913 .07923	9,9	12.685 12.669 12.653 12.637 12.621	16,0 15,9 15,9 15,9 15,8
0.0795 .0796 .0797 .0798 .0799	0.07958 ,07968 .07978 .07988 .07999	10,0	1.00316 .00317 .00318 .00319	0,8	0.07933 .07943 .07953 .07963 .07973	9,9	12.605 12.589 12.574 12.558 12.542	15,8 15,7 15,7 15,7 15,6
0.0800	0.08009	10,0	1.00320	0,8	0.07983	9,9	12.527	15,6
U	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F₀′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.0800	0.08009	10,0	1.00320	0,8	0.07983	9,9	12.527	15,6
.0801	.08019		.00321		.07993		12.511	15,6
.0802	.08039	i	.00322	.	.08013		12.496 12.480	15,5 15,5
.0804	,08049		.00323		.08023		12.465	15,4
						name of		
0,0805	0.08059	10,0	1.00324	0,8	0.08033	9,9	12.449	15,4
0807	.08079		.00325 .00326		.08043	- p-	12.434 12.418	15,4 15,3
.0808	.08089	-	.00327		.08062		12.403	15,3
.0809	.08099		.00327		.08072		12.388	15,2
0.0810	0.08100	10,0	1.00328	0,8	0.08082	9,9	12.373	15,2
.0811	.08119	10,0	.00329	0,0	.08092	9,9	12.357	15,2
.0812	.08129		.00330		.08102		12.342	15,1
.0813	.08139		.00331		.08112		12.327	15,1
.0814	.08149		.00331		.08122	,	12.312	15,1
0.0815	0.08159	10,0	1.00332	0,8	0.08132	9,9	12.297	15,0
.0816	.08169		.00333		.08142		12.282	15,0
.0817	.081 <i>7</i> 9 .08189		.00334		.08152 .08162		12.267	14,9
.0819	.08199		.00335		.08102		12.252 12.237	14,9 14,9
0.0820	0.08209	70.0		0,8	•		, ,	
.0821	.08219	10,0	1.00336 .00337	0,0	0.08182 .08192	9,9	12.222	14,8 14,8
.0822	.08229		.00338		.08202		12.193	14,8
.0823	.08239		.00339		.08211		12.178	14,7
.0824	.08249		.00340		.08221		12.163	14,7
0.0825	0.08259	10,0	1.00341	0,8	0.08231	9,9	12.149	14,7
.0826	.08269		.00341		.08241		12.134	14,6
.0827 .0828	.08279	,	.00342		.08251	No. of the	12.119	14,6
.0828	.08289	'	.00343		.08261		12.105	14,6 14,5
					1	1	12.090	14,5
0.0830	0.08310	10,0	1.00345	0,8	0.08281	9,9	12.076	14,5
.0831	.08320		.00345		.08291		12.061	14,4
.0832	.08340		.00347		.08301		12.047 12.033	I4,4 I4,4
.0834	.08350		.00348	)	.08321		12.018	14,3
0.0835	0.08360	10,0	1.00349	0,8	0.08331	9,9	12.004	14,3
.0836	08370	10,0	.00350	5,5	.08341	919	11.990	14,3
.0837	.08380		.00350		.08351	:	11.975	14,2
.0838	.08390		.00351	677 F.	.08360		11.961	14,2
.0839	.08400	1	.00352		08370		11.947	14,2
0.0840	0.08410	10,0	1.00353	0,8	0.08380	9,9	11.933	14,1
.0841 .0842	.08420		.00354		.08390		11.919	14,1
.0842	.08430		.00355		.08400		11.905	14,1
.0844	.08450		.00356	1	.08420		11.876	14,0 14,0
0.0845	0.08460	10,0	1.00357	0,8	0.08430	9,9	11.862	14,0
.0846	.08470	10,0	.00358	,,,,	.08440	9,9	11.802	13,9
.0847	.08480	]	.00359		.08450		11.835	13,9
.0848	.08490	:	.00360		.08460		11.821	13,9
.0849	.08500		.00361	0,9	.08470		11.807	13,8
0.0850	0.08510	10,0	1.00361	0,9	0.08480	9,9	11.793	13,8
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	. ω F <sub>0</sub> ′ ∽	sin gd u	ω F <sub>0</sub> ′	csc gd u	∞ F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	∞ F <sub>0</sub> ′
0.0850 .0851 .0852 .0853 .0854	0.08510 .08520 .08530 .08540 .08550	10,0	1.00361 .00362 .00363 .00364 .00365	0,9	0.08480 .08490 .08499 .08509 .08519	9,9	11.793 11.779 11.765 11.752 11.738	13,8 13,8 13,7 13,7 13,7
0.0855 .0856 .0857 .0858 .0859	0.08560 .08570 .08580 .08591 .08601	10,0	1.00366 .00367 .00367 .00368 .00369	<b>0,</b> 9	0.08529 .08539 .08549 .08559 .08569	9,9	11.724 11.711 11.697 11.684 11.670	13,6 13,6 13,6 13,6 13,5
0.0860 .0861 .0862 .0863 .0864	0.08611 .08621 .08631 .08641 .08651	10,0	1.00370 .00371 .00372 .00373 .00373	0,9	0.08579 .08589 .08599 .08609 .08619	9,9	11.657 11.643 11.630 11.616 11.603	13,5 13,5 13,4 13,4 13,4
0.0865 .0866 .0867 .0868 .0869	0.08661 .08671 .08681 .08691	10,0	1.00374 .00375 .00376 .00377 .00378	0,9	0.08628 .08638 .08648 .08658 .08668	9,9	11.590 11.576 11.563 11.550 11.536	13,3 13,3 13,3 13,2 13,2
0.0870 .0871 .0872 .0873 .0874	0.08711 .08721 .08731 .08741 .08751	10,0	1.00379 .00380 .00380 .00381 .00382	0,9	0.08678 .08688 .08698 .08708 .08718	9,9	11.523 11.510 11.497 11.484 11.471	13,2 13,1 13,1 13,1 13,1
0.0875 .0876 .0877 .0878 .0879	0.08761 .08771 .08781 .08791 .08801	10,0	1.00383 .00384 .00385 .00386 .00387	0,9	0.08728 .08738 .08748 .08758 .08767	9,9	11.458 11.445 11.432 11.419 11.406	13,0 13,0 13,0 12,9 12,9
0.0880 .0881 .0882 .0883 .0884	0.08811 .08821 .08831 .08841 .08852	10,0	1.00387 .00388 .00389 .00390	0,9	0.08777 .08787 .08797 .08807 .08817	9,9	11.393 11.380 11.367 11.354 11.342	12,9 12,8 12,8 12,8 12,8
0.0885 .0886 .0887 .0888 .0889	0.08862 .08872 .08882 .08892 .08902	10,0	1.00392 .00393 .00394 .00395 .00395	0,9	0.08827 .08837 .08847 .08857 .08867	9,9	11.329 11.316 11.304 11.291 11.278	12,7 12,7 12,7 12,6 12,6
0.0890 .0891 .0892 .0893 .0894	0.08912 .08922 .08932 .08942 .08952	10,0	1.00396 .00397 .00398 .00399 .00400	0,9	0.08877 .08886 .08896 .08906 .08916	9,9	11.266 11.253 11.240 11.228 11.215	12,6 12,6 12,5 12,5 12,5
0.0895 .0896 .0897 .0898 .0899	0.08962 .08972 .08982 .08992 .09002	10,0	1.00401 .00402 .00403 .00403	0,9	0.08926 .08936 .08946 .08956 .08966	9,9	11.203 11.191 11.178 11.166 11.153	12,5 12,4 12,4 12,4 12,3
0.0900	0.09012	10,0	1.00405	0,9	0.08976	9,9	11.141	12,3
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sình u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	∞ Fo′
0.0900 .0901 .0902 .0903 .0904	0.09012 .09022 .09032 .09042 .09052	10,0	1.00405 .00406 .00407 .00408 .00409	0,9	0.08976 .08986 .08996 .09006 .09015	9,9	II.141 II.129 II.117 II.104 II.092	12,3 12,3 12,3 12,2 12,2
0.0905 .0906 .0907 .0908 .0909	0.09062 .09072 .09082 .09092 .09103	10,0	1.00410 .00411 .00412 .00413 .00413	0,9	0.09025 .09035 .09045 .09055 .09065	9,9	11.080 11.068 11.056 11.043 11.031	12,2 12,1 12,1 12,1 12,1
0.0910 .0911 .0912 .0913 .0914	0.09113 .09123 .09133 .09143 .09153	10,0	1.00414 .00415 .00416 .00417 .00418	0,9	0.09075 .09085 .09095 .09105 .09115	9,9	11.019 11.007 10.995 10.983 10.971	12,0 12,0 12,0 12,0 11,9
0.0915 .0916 .0917 .0918 .0919	0.09163 .09173 .09183 .09193 .09203	10,0	1.00419 .00420 .00421 .00422 .00423	0,9	0.09125 .09134 .09144 .09154 .09164	9,9	10.959 10.948 10.936 10.924 10.912	11,9 11,9 11,9 11,8 11,8
0.0920 .0921 .0922 .0923 .0924	0.09213 .09223 .09233 .09243 .09253	10,0	1.00423 .00424 .00425 .00426 .00427	0,9	0.09174 .09184 .09194 .09204 .09214	9,9	10.900 10.888 10.877 10.865 10.853	11,8 11,8 11,7 11,7 11,7
0.0925 .0926 .0927 .0928	0.09263 .09273 .09283 .09293 .09303	10,0	1.00428 .00429 .00430 .00431 .00432	0,9	0.09224 .09234 .09244 .09253 .09263	: <b>9,9</b>	10.842 10.830 10.818 10.807 10.795	11,7 11,6 11,6 11,6 11,6
0.0930 .0931 .0932 .0933 .0934	0.09313 .09323 .09333 .09344 .09354	10,0	1.00433 .00434 .00435 .00436 .00436	0,9	0.09273 .09283 .09293 .09303 .09313	9,9	10.784 10.772 10.761 10.749 10.738	11,5 11,5 11,5 11,5 11,4
0.0935 .0936 .0937 .0938 .0939	0.09364 .09374 .09384 .09394 .09404	10,0	1.00437 .00438 .00439 .00440 .00441	0,9	0.09323 .09333 .09343 .09353 .09362	9,9	10.726 10.715 10.704 10.692 10.681	II,4 II,4 II,4 II,3 II,3
0.0940 .0941 .0942 .0943 .0944	0.09414 .09424 .09434 .09444 .09454	10,0	1.00442 .00443 .00444 .00445 .00446	0,9	0.09372 .09382 .09392 .09402 .09412	9,9	10.670 10.658 10.647 10.636 10.625	11,3 11,3 11,2 11,2 11,2
0.0945 .0946 .0947 .0948 .0949	0.09464 .09474 .09484 .09494 .09504	10,0	1.00447 .00448 .00449 .00450 .00451	0,9 0,9 1,0	0.09422 .09432 .09442 .09452 .09462	9,9	10.613 10.602 10.591 10.580 10.569	II,2 II,1 II,1 II,1 II,1
0.0950	0.09514	10,0	1.00452	1,0	0.09472	9,9	10.558	II,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′ ¬	ese gd u	ω F <sub>0</sub> ′

	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
ı	0.0950	0.09514	10,0	1.00452	1,0	0.09472	9,9	10.558	11,0
H	.0951	.09524		.00453	decide Silver de de 19	.09481		10.547	11,0
	.0952	.09534		.00453	Without Salds	.09491	and other sections	10.536	11,0
H	.0953	.09544		.00454	sanger wegati. Ad	.09501		10.525	11,0
	.0954	.09554		.00455		.09511		10.514	11,0
I			Thorn Sub					-	
I	0.0955	0.09565	10,0	1.00456	I,0	0.09521	9,9	10.503	10,9
I	.0956	.09575	20 - 62 7 1 . Caralogol 4	.00457		.09531		10.492	10,9
ı	.0957	.09585		.00458		.09541		io.481	10,9
I	<b>.0</b> 958	.09595		.00459	or et al. att. aet.	.09551		10.470	10,9
ı	<b>.0</b> 959	.09605	2.55	.00460		.09561		10.459	10,8
ı	0 0060	0 00614		7 00 467		0.00571		70 440	70.0
	0.0960	0.09615	10,0	1.00461	1,0	0.09571	9,9	10.449	10,8
I	.0961	.09625	La a de l	.00462	ri badan da	.09581		10.438	10,8
Н	.0962	.09635				09590		10.427	10,8
H	.0963 .0964	.09645		.00464		.09600 .09610		10.416 10.406	10,7 10,7
	.0904	.09055		.00405	1.4	.09010		10.400	10,7
	0.0965	0.09665	10,0	1.00466	1,0	0.09620	9,9	10.395	10,7
	.0966	.09675	10,0	.00467	-,-	.09630	919	10.384	10,7
	.0967	09685		.00468		.09640		10.373	10,7
H	.0968	.09695		.00469	Conference of the	.09650		10.363	10,6
ı	.0969	.09705		.00470	A Marian	.09660		10.352	10,6
	10909	97-5							
	0.0970	0.09715	10,0	1.00471	1,0	0.09670	9,9	10.342	10,6
ı	.0071	.09725	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	.00472	bene same.	.09680		10.331	10,6
ı	.0972	.09735	*	.00473	determinate.	.09689	A 41.5	10.320	10,6
П	.0973	.09745	]	.00474		.09699		10,310	10,5
	.0974	.09755	44.	.00475	Table Territoria	.09709		10.299	10,5
ı			I'AD	For				_	
I	0.0975	0.09765	UH	¥ 700 a 76 a	INQ	0.00719	OF°	10.289	10,5
ı	.0976	.097 <u>7</u> 6		**************************************		00779	116-	[ (b) 18	7 6 495
ı	.0977	.09780		.00478		.09739**	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	L ma e68	10,4
	.0978	.09796		.00479	1 1	00749	Pile dellaries	10.258	104
ı	.0979	.09806		.00480	Filmenty ()	<b>9975</b> 9.	the freez ?	J 10.247	10,4
ı	0.000	0.09816	700	.00481	1,0	0.00760	•	TO 227	70.4
	0.0980	.09826	10,0	00-182	1,0		9,9	10.237 10.226	10,4
ı	.0981	.09820		.00483		.09779	16 4	10.226	10,4 10,3
ı	.0983	.09846		.00484		.09708		10.206	10,3
1	.0984	.09856		.00485		.09808		10.195	10,3
ı	.0904	.09030		.00405	torg to constance; a	109000		10.195	10,5
I	0.0985	0.09866	10,0	1.00486	i I,O	0.00818	9,9	10.185	10,3
ı	.0986	.09876		.00486		.09828	, ,,,	10.175	10,3
I	.0987	.09886		.00487	WANTED CONTRACT	.09838		10.165	10,2
1	.0988	.00896		.00488	4460ANV	.09848	}	10.154	10,2
ı	.0989	.09906		.00489		.09858	Section 25	10.144	10,2
						0.00			
ı	0.0990	0.09916	10,0	1.00490	1,0	0.09868	9,9	10.134	10,2
ı	.0991	.09926		.00491		.09878		10.124	10,1
1	.0992	.09936		.00492		.09888	Resident at	10.114	10,1
ı	.0993	.09946		.00493	10.50	09897		10.104	10,1
1	.0994	.09950	T	.00494		09907		10.093	IO, I
	0.000	0.09966	10,0	1.00495	1,0	0.09917	9,9	10.083	10,1
ı	.0995	.09976	10,0	.00495	-,-	.09927	9,9	10.003	10,1
١	.0997	.09987		.00497	Lastin distribution	.09937		10.063	10,0
. 1	.0998	.09997		.00498	Spanis	.09947	1.47%, 4.1.	10.053	10,0
١	.0999	10007		.00499		.09957		10.043	10,0
١	7,7,7,9		1.	1		1	1	]	
	0.1000	0.10017	10,1	1.00500	1,0	0.09967	9,9	10.033	10,0
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω Fo'	sin gd u	ω Fo'	ese gd u	ω Fo'

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0,100	0.10017	100,5	1.00500	10,0	0.09967	99,0	10.0333	996,7
.101	.10117	100,5	.00510	10,1	.10066	99,0	9.9346	977,0
. 102	.10218	100,5	.00521	10,2	. 10165	99,0	.8379	957,9
. 103	. 10318	100,5	.00531	10,3	.10264	98,9	.7430	939,3
. 104	. 10419	100,5	.00541	10,4	. 10363	98,9	.6500	921,2
						-0 -	~ ~~00	
. 106	0.10519	100,6	I.00552 .00562	10,5 10,6	0.10462 .10560	98,9 98,9	9.5588	903,7 886,7
.107	10720	100,6	.00573	10,7	.10559	98,9	3814	870,1
.108	.10821	100,6	.00584	10,8	.10039	98,8	.2952	0
.100	.10021	100,6	.00595	10,9	.10857	98,8	.2106	838,4
	-							
0.110	0.11022	100,6	1.00606	11,0	<b>0.</b> 10956	98,8	9.1275	823,1
III.	.11123	100,6	.00617	11,1	.11055	98,8	.0460	808,3
.112	.11223	100,6	.00628	11,2	.11153	98,8	8.9659	793,9
.113	.11324	100,6	.00639	11,3	.11252	98,7	.8872	779,8
.114	.11425	100,7	.00651	11,4	.11351	98,7	.8099	766,1
0.115	0.11525	100,7	1.00662	11,5	0.11450	98,7	8.7340	752,8
.116	.11626	100,7	.00674	11,6	.11548	98,7	.6593	739,8
.117	.11727	100,7	.00685	11,7	.11647	98,6	.5860	727,2
.118	.11827	100,7	.00697	11,8	.11746	98,6	5139	714,9
.119	.11928	100,7	.00709	11,9	.11844	98,6	.4430	702,8
0.120	0.12029	100,7	1.00721	12,0	0.11943	98,6	8.3733	691,1
.121	.12130	100,7	.00733	12,1	.12041	98,6	.3048	679,7
.121	12230	100,7	.00733	12,1	.12041	98,5	.2373	668,5
.123	.12331	100,8	.00757	12,3	.12140	98,5	.1710	657,7
.124	.12432	100,8	.00770	12,4	.12337	98,5	.1058	647,0
0.125	0.12533	100,8	1.00782	12,5	0.12435	98,5	8.0416	636,7
.126	.12633	100,8	.00795	12,6	.12534	98,4	7.9785	626,6
.127	.12734	100,8	.00808	12,7	.12632	98,4	.9163	616,7
.128	.12835	100,8	.00820	12,8	.12731	98,4	.8551	607,0
.129	.12936	100,8	.00833	12,9	.12829	98,4	•7949	597,6
0.130	0.13037	100,8	1.00846	13,0	0.12927	98,3	7.7356	588,4
.131	.13138	100,9	.00859	13,1	.13026	98,3	.6772	579,4
.132	.13238	100,9	.00872	13,2	.13124	98,3	.6197	570,6
.133	.13339	100,9	.00886	13,3	.13222	98,3	.5631	562,0
.134	.13440	100,9	.00899	13,4	.13320	98,2	.5073	553,6
0.135	0.13541	100,9	1.00913	13,5	0.13419	98,2	7.4524	545,4
.136	.13642	100,9	.00926	13,6	.13517	98,2	.3982	537.3
.137	.13743	100,9	.00920	13,7	.13615	98,1	3449	529,5
,138	.13844	101,0	00954	13,8	.13713	98,1	.2923	521,8
.139	.13945	101,0	.00968	13,9	.13811	98,1	.2405	514,3
0.740	0.71016	TOTO	1.00982	740	0.13909	98,1	7.1895	506,9
0.140	0.14046 .14147	101,0	.00996	14,0 14,1	14007	98,0	.1391	499,7
.141 .142	.1414/	101,0	.01010	14,1	14105	98,0	.0895	492,6
,143	.14246	101,0	.01024	14,2	.14203	98,0	.0406	485,7
.143	. 14450	101,0	.01024	14,3	.14301	98,0	6.9924	478,9
					•	<b>\</b>	· .	
0.145	0.14551	101,1	1.01053	14,6	0.14399	97,9	6.9448	472,3 465,8
.146	.14652	101,1	.01068	14,7	14497	97,9	.8979	
.147	.14753	101,1	.01082	14,8	14595	97,9	.8517 .8060	459,5
.148	.14854 .14955	101,1 101,1	.01097	14,9 15,0	.14693	97,8	.7610	453,2 447,1
1					0.14889		6.7166	
0.150	0.15056	101,1	1.01127	15,1		97,8		441,1
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gđ u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	F <sub>0</sub> ′
0.150	o.15056	101,1	1.01127	15,1	0.14889	97,8	6.7166	441,
.151	.15157	101,1	.01142	15,2	14985	97,8	.6728	435,
.152	.15259	101,2	.01157	15,3	.15084	97,7	.6295	429,
.153	.15360	101,2	.01173	15,4	.15182	97,7	.5869	423,
.154	15461	101,2	.01188	15,5	.15279	97,7	.5448	418,
•154	.13401	101,2	•01100	13,3	•152/9	9/,/	• 5440	410,
0.155	0.15562	101,2	1.01204	15,6	0.15377	97,6	6.5032	412,
.156	.15663	101,2	.01219	15,7	•15475	97,6	.4622	407,
.157	.15765	101,2	.01235	15,8	.15572	97,6	.4217	402,
.158	.15866	101,3	.01251	15,9	.15670	97,5	.3817	397
.159	.15967	101,3	.01267	16,0	.15767	97,5	.3422	392,
0.160	0.16068	101,3	1.01283	16,1	0.15865	97,5	6.3032	387
.161	.16170	101,3	.01299	16,2	.15962	97,5	.2648	382
.162	.16271	101,3	.01315	16,3	.16060	97,4	.2267	377
. 163	. 16372	101,3	.01331	16,4	.16157	97,4	.1892	373
.164	.16474	101,3	.01348	16,5	.16254	97,4	.1521	368
0.165	o. 16575	101,4	1.01364	16,6	0.16352	97,3	6.1155	<b>3</b> 64
.166	.16676	101,4	.01381	16,7	.16449	97,3	.0793	359 359
.167	16778	101,4	.01398	16,8	16546	97,3	.0436	355
.168	.16879	101,4	.01415	16,9	16644	97,2	.0083	351
.169	.16981	101,4	.01431	17,0	.16741	97,2	5.9734	<b>3</b> 31
		1011	T 07440		<b>0.</b> 16838			
0.170	0.17082	101,4 101,5	1.01448 .01466	17,1 17,2	.16935	97,2	5.9389	342
171		101,5	.01483			97,I	.9048	338
.172	17285			17,3	.17032	97,1	.8712	334
.173	.17386	101,5	.01500	17,4	.17129	97,1	.8379	330
.174	.17488	101,5	.01518	17,5	. 17226	97,0	.8050	327
0.175	0.17589	101,5	1.01535	17,6	0.17324	97,0	5.7725	323
.176	.17691	101,6	.01553	17,7	17420	97,0	7404	319
.177	17793	101,6	.01571	17,8	.17517	96,9	.7086	315
.178	.17894	101,6	.01588	17,9 18,0	.17614	96,9	.6772	312
.179	.17996	101,6	.01606	18,0	.17711	96,9	.6461	308
0.180	0.18097	101,6	1.01624	18,1	0.17808	96.8	5.6154	305
.181	.18199	101,6	.01643	18,2	.17905	96,8	.5851	301
. 182	. 18301	101,7	.01661	18,3	.18002	96,8	.5550	298
. 183	.18402	101,7	.01679	18,4	.18098	96,7	5253	295
.184	.18504	101,7	.01698	18,5	18195	96,7	.4960	292
0.185	0.18606	TOT 7	T 01716	18,6	0. 10000	o6 #	660	-00
.186	.18707	101,7	1.01716	18,7	0.18292	96,7	5.4669	288
.187	.18809	101,7	.01735	18,8	.18388	96,6	.4382	285
.188			.01754		18485	96,6	.4098	282
.189	18911	101,8	.01772	18,9	18582	96,5	.3817	279
.109	.19013	101,8	.01791	19,0	.18678	96,5	•3539	<b>27</b> 6
0.190	0.19115	101,8	1.01810	19,1	0.18775	96,5	5.3263	273
.191	.19216	101,8	.01830	19,2	.18871	96,4	.2991	270
.192	.19318	101,8	.01849	19,3	.18967	96,4	.2722	<b>2</b> 68
. 193	.19420	101,0	.01868	19,4	.19064	96,4	.2455	265
.194	.19522	101,9	.01888	19,5	.19160	96,3	.2191	262
0.195	0.19624	101,9	1.01907	19,6	0.19257	96,3	5.1930	259
.196	.19726	101,9	.01927	19,7	.19353	96,3	.1672	257
. 197	.19828	101,9	.01947	19,8	19449	96,2	1416	254
.198	. 19930	102,0	.01967	19,9	.19545	96,2	.1163	251
.199	.20032	102,0	.01987	20,0	.19641	96,1	.0913	<b>2</b> 49
0.200	0.20134	102,0	1.02007	20,1	0.19738	96,1	5.0665	246
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω <b>F</b> <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ωF
0.200	0.20134	102,0	1.02007	20,1	0.19738	96,1	5.0665	2.
.201	.20236	102,0	.02027	20,2	.19834	96,1	.0419	2
.202	.20338	102,0	.02047	20,3	19930	96,0	.0176	2
.203	.20440	102,1	.02068	20,4	.20026	96,0	4.9936	2
.204	.20542	102,1	.02088	20,5	.20122	96,0	.9698	2
0.205	0.20644	102,1	1.02109	20,6	0.20218	95,9	4.9462	2
.206	.20746 .20848	102,1 102,2	.02129	20,7	.20313	95,9	.9228	2
.207	.20040	102,2	.02150 .02171	20,8 21,0	.20409	95,8 95,8	.8768	2
209	.21052	102,2	.02192	21,1	.20601	95,8	.8542	2
0.210	0.21155	102,2	1.02213	21,2	0.20697	95,7	4.8317	2
.211	.21257	102,2	.02234	21,3	.20792	95,7	.8095	2
.212	.21359	102,3	.02256	21,4	.20888	95,6	.7874	2
.213	.21461	102,3	.02277	21,5	.20984	95,6	.7656	2
.214	.21564	102,3	.02299	21,6	.21079	95,6	•7440	2
0.215 .216	0.21666 .21768	102,3 102,3	1.02320 .02342	21,7 21,8	0.21175 .21270	95,5	4.7226	2 2
.217	.21/08	102,3	.02342	21,0	.212/0	95,5 95,4	.6804	2
.218	21973	102,4	.02386	22,0	.21461	95,4	.6596	2
.219	22075	102,4	.02408	22,1	.21556	95,4	.6390	2
0.220	0.22178	102,4	1.02430	22,2	ö.21652	95,3	4.6186	2
.221	.22280	102,5	.02452	22,3	.21747	95,3	.5983	2
.222	.22383	102,5	.02474	22,4	.21842	95,2	•5783	I
.223	.22485	102,5 102,5	.02497 .02519	22,5 22,6	.21938	95,2 95,1	•5584 •5387	I
0.225	0.22690		1.02542	22,7	0.22128	95,1	4.5192	Ī
.226	22793	102,5	02565	22,7	.22223	95,1	4.5192	ī
.227	.22895	102,6	.02588	22,9	.22318	95,0	.4807	I
.228	.22998	102,6	.02610	23,0	.22413	95,0	.4617	Ţ
.229	.2310t	102,6	.02634	23,1	.22508	94,9	4429	1
0.230	0.23203	102,7	1.02657	23,2	0.22603	94.0	4.4242	1
.231	.23306	102,7 102,7	.02680	23,3	.22698	94,8	.4057	1
.232 .233	.23409	102,7	.02703	23,4 23,5	22793 22887	94,8 94,8	.3692	1
234	.23614	102,8	.02750	23,6	.22982	94,7	.3512	1
0.235	0.23717	102,8	1.02774	23,7	0.23077	94,7	4.3334	Ĭ
.236	23820	102,8	.02798	23,8	.23171	94,6	.3157	1
.237	.23922	102,8	.02822	23,9	.23266	94,6	.2981	I
.238	.24025	102,8	.02846	24,0	.23361	94,5	.2807	3
.239	.24128	102,9	.02870	24,1	•23455	94,5	.2635	I
0.240	0.24231	102,9	1.02894		0.23550	94.5	4.2464	. 1
.24I .242	·24334 ·24437	102,9	.02918	24,3 24,4	.23644	94,4 94,4	.2294 .2126	3
.242	.24540	102,9	.02943	24,4	.23833	94,4	.1959	]
.244	.24643	103,0	.02992	24,6	.23927	94.3	1794	ì
0.245	0.24746	103,0	1.03016	24,7	0.24021	94,2	4.1630	1
.246	.24849	103,0	.03041	24,8	.24115	94,2	. 1467	3
.247	.24952	103,1	.03066	25,0	.24210	94,1	1306	1
.248	.25055	103,1 103,1	.03091	25,1 25,2	.24304	94,1 94,0	.0987	1
0.250	0.25261	103,1	1.03141	25,3	0.24492	94,0	4.0830	1
u "	tan ga u	ω F <sub>0</sub> '	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	ese gd u	ωF
_	'-'' y'' '			1	1			

					1 97714721		10 × 10 × 10 × 10 × 10 × 10 × 10 × 10 ×	et .
u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.250	0.25261	103,1	1.03141	25,3	0.24492	94,0	4.0830	156,
.251	.25364	103,2	.03167	25,4	.24586	94,0	.0674	155.
.252	.25468	103,2	.03192	25,5	.24680	93,9	.0519	154
.253	.25571	103,2	.03218	25,6	.24774	93,9	.0365	152,
.254	.25674	103,2	.03243	25.7	.24867	93,8	.0213	151.
0.255	0.25777	103,3	1.03269	25,8	0.24961	93,8	4.0062	150.
.256	.25881	103,3	.03295	25,9	.25055	93,7	3.9912	149
257	.25984	103,3	.03321	26,0	.25149	93,7	.9763	148
.258	.26087	103,3	.03347	26,1	.25242	93,6	.9616	146.
.259	.26191	103,4	.03373	26,2	.25336	93,6	.9470	145
0.260	0.26294	103,4	1.03399	26,3	0.25430	93,5	3.9324	<b>144</b> .
.261	.26397	103,4	.03425	26,4	.25523	93,5	.9180	143
.262	.26501	103,5	.03452	26,5	.25617	93,4	9037	142
.263	.26604	103,5	.03478	26,6	.25710	93,4	.8895	141
.264	.26708	103,5	.03505	26,7	.25803	93,3	.8755	14C
0.265	0.26811	103,5	1.03532	26,8	0.25897	93,3	3.8615	135
.266	.26915	103,6	.03559	26,9	.25990	93,2	.8476	138
.267	.27018	103,6	.03586	27,0	.26083	93,2	.8339	137
.268	.27122	103,6	.03613	27,1	.26176	93,1	.8203	135
.269	.27226	103,6	.03640	27,2	.26269	93,1	.8067	134
0.270	0.27329	103,7	1.03667	27,3	0.26362	93,1	3.7933	133
.271	.27433	103,7	03695	27,4	.26456	93,0	7799	132
.272	•27537	103,7	.03722	27,5	.26548	93,0	.7667	131
273	.27640	103,7	.03750	27,6	.26641	92,9	.7536	13C
.274	.27744	103,8	.03777	27,7	.26734	92,9	.7405	129
0.275	0.27848	103,8	1.03805	27,8	0.26827	92,8	3.7276	128
.276	.27952	103,8	.03833	28,0	.26920	92,8	.7147	128
.277	.28056	103,9	.03861	28,1	.27013	92,7	.7020	127
.278	.28159	103,9	.03889	28,2	.27105	92,7	.6893	126
.279	.28263	103,9	.03917	28,3	.27198	92,6	.6768	125
0.280	0.28367	103,9	1.03946	28,4	0.27291	92,6	3.6643	124
281	.28471	104,0	.03974	28,5	.27383	92,5	.6519	123
.282	.28575	104,0	.04003	28,6	.27476	92,5	.6396	122
.283	.28679	104,0	.04031	28,7	.27568	92,4	.6274	121
.284	.28783	104,1	.04060	28,8	.27660	92,4	.6153	120
0.285	0.28887	104,1	1.04089	28,9	0.27753	92,3	3.6033	119
.286	.28991	104,1	.04118	29,0	.27845	92,2	.5913	119
.287	.29096	104,1	.04147	29,1	•27937	92,2	•5795	118
.288	.29200	104,2	.04176	29,2	.28029	92,1	5677	117
.289	.29304	104,2	.04205	29,3	.28121	92,1	.5560	116
0.290	0.29408	104,2	1.04235	29,4	0.28213	92,0	3.5444	115
.291	.29512	104,3	04264	29,5	.28305	92,0	.5329	114
.292	.29617	104,3	.04294	29,6	.28397	91,9	.5214	114
.293	.29721	104,3	.04323	29,7	.28489	91,9	.5101	113
.294	.29825	104,4	.04353	29,8	.28581	91,8	.4988	11:
0.295	0.29930	104,4	1.04383	29,9	0.28673	91,8	3.4876	III
.296	.30034	104,4	.04413	30,0	.28765	91,7	.4765	IIC
.297	.30139	104,4	.04443	30,1	.28856	91,7	.4654	IIC
.298	.30243	104,5	.04473	30,2	.28948	91,6	•4545	ΙΟς
.299	.30348	104,5	.04503	30,3	.29040	91,6	.4436	301
0.300	0.30452	104,5	1.04534	30,5	0.29131	91,5	3.4327	107
	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> '	csc gd u	ω Fo'

7			And and the second	- Western or the Paris	estant in transcription (#12)		Marie and Constitution (Constitution of	
u	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.300	0.30452	104,5	1.04534	30,5	0.29131	91,5	3.4327	107,8
.301	.30557	104,6	.04564	30,6	.29223	91,5	.4220	107,1
.302	.30661	104,6	.04595	30,7	.29314	91,4	.4113	fo6,4
.303	.30766	104,6	.04626	30,8	.29406	91,4	4007	105,6
.304	.30870	104,7	.04656	30,9	29497	91,3	.3902	104,9
0.305	0.30975	104,7	1.04687	31,0	0.29588	91,2	3 · 3797	104,2
.306	.31080	104,7	.04718	31,1	.29679	91,2	3693	103,5
.307	.31185	104,7	.04750	31,2	29771	91,1	.3590	102,8
.308	.31289	104,8	.04781	31,3	.29862	91,1	.3488	102,1
.309	.31394	104,8	.04812	31,4	29953	91,0	.3386	101,5
0.310	0.31499	104,8	1.04844	31,5	0.30044	91,0	3.3285	100,8
.311	.31604	104,9	.04875	31,6	.30135	90,9	.3184	100,1
.312	.31709	104,9	.04907	31,7	.30226	90,9	.3085	99,5
.313	.31814	104,9	.04939	31,8	.30316	90,8	.2985	98,8
.314	.31919	105,0	<b>.0</b> 4970	31,9	.30407	90,8	.2887	98,2
0.315	0.32024	105,0	1.05002	32,0	0.30498	90,7	3.2789	97,5
.316	.32129	105,0	.05034	32,1	30589	90,6	.2692	96,9
.317	.32234	105,1	05067	32,2	.30679	90,6	.2595	96,2
.318	.32339	105,1	.05099	32,3	30770	90,5	.2499	95,6
.319	• 32444	105,1	.05131	32,4	.30860	90,5	.2404	95,0
0.320	0.32549	105,2	1.05164	32,5	0.30951	90,4	3.2309	94,4
.321	.32654	105,2	.05196	32,7	.31041	90,4	.2215	93,8
.322	.32759	105,2	.05229	32,8	31131	90,3	.2122	93,2
.323	.32865	105,3	.05262	32,9	.31222	90,3	.2029	92,6
•324	.32970	105,3	.05295	33,0	.31312	90,2	.1937	92,0
0.325	0.33075	105,3	1.05328	33,1	0.31402	90,1	3.1845	91,4
.326	.33181	105,4	.05361	33,2	.31492	90,1	.1754	90,8
.327	.33286	105,4	.05394	33,3	.31582	90,0	.1663	90,3
.328	·33391	105,4	.05428	33,4	.31672	90,0	.1573	89,7
.329	33497	105,5	.05461	33,5	.31762	89,9	.1484	89,1
0.330	0.33602	105,5	1.05495	33,6	0.31852	89,9	3.1395	88,6
.331	.33708	105,5	.05528	33,7	.31942	89,8	.1307	88,0
.332	.33813	105,6	.05562	33,8	.32032	89,7	.1219	87,5
•333	.33919	105,6	.05596	33,9	.32121	89,7	.1132	86,9
•334	.34024	105,6	.05630	34,0	.32211	89,6	.1045	86,4
0.335	0.34130	105,7	1.05664	34,1	0.32301	89,6	3.0959	85,8
.336	.34236	105,7	05698	34,2	.32390	89,5	.0874	85,3
-337	.34342	105,7	.05732	34,3	.32480	89,5	.0789	84,8
.338	•34447	105,8	.05767	34,4	.32569	89,4	.0704	84,3
•339	•34553	105,8	.05801	34,6	.32658	89,3	<b>.0</b> 620	83,8
0.340	0.34659	105,8	1.05836	34,7	0.32748	89,3	3.0536	83,2
.341	.34765	105,9	.05871	34,8	32837	89,2	.0453	82,7
.342	.34871	105,9	.05905	34,9	.32926	89,2	.0371	82,2
•343	•34977	105,9	.05940	35,0	.33015	89,1	.0289	81,7
•344	.35082	. 106,0	.05975	35,1	.33104	89,0	.0207	81,2
0.345	0.35188	106,0	1.06011	35,2	0.33193	89,0	3.0126	80,8
.346	.35295	106,0	.06046	35,3	.33282	88,9	.0046	80,3
•347	.35401	106,1	.06081	35,4	·33371	88,9	2.9966	79,8
.348	.35507 .35613	106,1 106,2	.06117 .06152	35,5 35,6	.33460 .33549	88,8 88,7	.9886 .9807	79.3 78,8
0.350	0.35719	106,2	1.06188	35,7	0.33638	88,7	2.9729	78,4
		ω F <sub>0</sub> '	sec gd u	ω F <sub>0</sub> ′				ω F <sub>0</sub> '
u	tan gd u	w F0	sec yu u	W F0	sin gd u	ω F <sub>0</sub> ′	csc gd u	w F0

0.350	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.350		0.05770	106.2	T-06188	35.7	0.33638	88,7		
35931 106,3 .66259 35,9 .33815 88,0 .9973 77,0 .3583 .36038 106,3 .66295 36,0 .33903 88,5 .9496 77,5 .3513 .36038 106,4 .06404 .06604 .06584 .06604 .					35,8		88,6	.9651	
		.35025	100,2	06250	35,9	.33815	88,6		77,5
0.355		•35931					88,5		77,0
0.355			100,3				88,4	•9419	70,5
0.355   0.30250   100,4   .00404   30,4   .34150   88,3   .0267   75.7   .3504   .30537   106,4   .06440   30,4   .34150   88,3   .9101   75.2   .357   .36463   106,4   .06440   36,5   .34257   88,2   .9116   74,8   .358   .36570   106,5   .06477   36,6   .34237   88,2   .9116   74,8   .359   .36670   106,5   .06514   36,7   .34433   88,1   .9042   74,3   .359   .36690   106,6   .06587   36,9   .34697   88,0   .8894   73,5   .362   .36996   106,6   .06624   37,1   .34785   87,9   .8894   73,5   .363   .37102   106,7   .06661   37,1   .34785   87,9   .8748   72,2   .363   .37209   106,7   .06661   37,4   .35040   87,7   .8532   71,4   .366   .37433   106,8   .06773   37,4   .35040   87,7   .8532   71,4   .366   .37433   106,8   .06733   37,4   .35040   87,7   .8532   71,4   .366   .37733   106,8   .06816   37,5   .35136   87,7   .860   71,0   .368   .3706   .3763   106,8   .06816   37,5   .35136   87,7   .860   71,0   .368   .37706   .06886   37,7   .35312   87,5   .8390   70,2   .37057   107,0   .06991   38,0   .35390   87,5   .8390   70,2   .3733   .38171   .07,0   .07937   38,1   .35574   87,3   .8110   69,4   .3733   .38171   .07,0   .07937   38,2   .35501   87,3   .8042   68,6   .3737   .38278   107,1   .07076   38,3   .35939   87,5   .28240   69,8   .3707   .37850   107,2   .07152   38,5   .35933   87,1   .7837   .7773   .38171   .07076   38,3   .35749   87,2   .7793   .3797   .07171   .07076   38,3   .35749   87,2   .7793   .3797   .37957   107,2   .07152   38,5   .35933   87,1   .7837   .7773   .38171   .07,2   .07152   38,5   .35933   87,1   .7837   .7773   .3814   .07,2   .07152   38,5   .35933   87,1   .7837   .7773   .38492   .071,2   .07152   38,5   .35933   87,1   .7837   .7773   .38493   .07,4   .07425   .3992   .30531   .07,4   .07425   .3992   .30531   .07,4   .07425   .3992   .30531   .07,4   .07425   .3992   .30531   .3074   .30444   .3044   .3074   .3044   .3044   .3074   .3044   .3044   .3074   .3044   .3044   .3074   .3044   .3066   .3066   .3066   .3066   .3066   .3066   .3066   .3066   .3	•354	.30144	100,3	.0000_		1,000	1	ra sin ar wa	
357 36463 106.4 0.6440 36.5 3.4257 88.3 0.907 75.2 3.557 36.663 106.5 0.6477 36.6 3.4345 88.2 0.9116 74.8 3.55 36.6 106.5 0.6514 36.7 34.433 88.1 0.9042 74.8 3.55 36.6 0.36783 106.6 1.0655 0.6514 36.7 34.433 88.1 0.9042 74.8 3.50 0.3666 1.3689 106.6 0.06587 36.9 3.4699 88.0 88.0 88.0 3.01 0.06 0.36783 106.6 0.06587 36.9 3.4699 88.0 88.0 88.0 3.01 0.06 0.36783 106.6 0.06587 37.0 34.697 88.0 88.0 88.0 3.01 0.06 0.0661 37.0 34.697 88.0 88.0 88.0 3.00 0.36783 106.6 0.06624 37.0 34.697 88.0 88.0 88.0 3.00 0.36783 106.6 0.06587 37.0 34.697 88.0 88.0 88.0 3.00 0.36783 37.0 34.70 34.		0 26250	T06.4	1.06368	36,3	0.34080	88,4		70,1
357   36403   106.4   .06440   36.5   .34457   88.3   .9101   .79.5					36,4	.34169	88,3		75.7
358   36570   106.5   .06614   36.7   .344345   88.2   .9110   74.3		26462				.34257	88,3		75,2
359   36076   106,5   0.6514   36,7   34433   88,1   9.042   74,3		36570				•34345			
0.360		26676			36,7	•34433	88,1	.9042	74.3
0.300 0.30/83 106,6 .06587 36,9 .34600 88,0 .8804 73.5 .361 .3622 .36996 106,6 .06624 37.0 .34607 88,0 .8821 73.1 .34785 .3702 106,7 .06661 37.1 .34785 87,9 .87,8 .72,6 .363 .37102 106,7 .06661 37.1 .34785 87,8 .8675 72.2 .368 .37102 106,7 .06668 37.2 .34873 87,8 .8675 72.2 .366 .37423 106,8 .0673 37.4 .35049 87,8 .8675 72.2 .366 .37423 106,8 .0673 37.4 .35049 87,7 .8460 71,0 .368 .37536 106,8 .06810 37.5 .35136 87,7 .8460 71,0 .368 .37536 106,9 .06886 37.7 .35312 87,5 .8310 70,2 .370 .37850 106,9 .06886 37.7 .35312 87,5 .8310 70,2 .370 .37850 106,0 .06886 37.7 .35312 87,5 .8310 70,2 .371 .37957 107,0 .06961 38,0 .35487 87,4 .8180 69,4 .371 .37957 107,0 .06961 38,0 .35487 87,4 .8180 69,4 .371 .37957 107,0 .06961 38,0 .35487 87,4 .8180 69,4 .371 .37957 107,0 .06961 38,0 .35487 87,4 .8180 69,4 .373 .38044 107,0 .06999 38,1 .35574 87,3 .8042 68,6 .373 .38044 107,0 .06999 38,1 .35574 87,3 .8042 68,6 .373 .38492 107,1 .07076 38,3 .3549 87,2 .7973 68,2 .373 .38492 107,2 .07151 38,5 .35010 87,2 .7973 68,2 .373 .38492 107,2 .07151 38,6 .30010 87,0 .7770 67,5 .378 .38707 107,2 .07230 38,7 .35023 87,1 .7837 67,5 .378 .38071 107,3 .07268 38,8 .36184 80,0 .7037 60,4 .384 .39351 107,3 .07346 39,0 .36558 80,8 .7055 67,5 .381 .39028 107,4 .07385 39,1 .30444 86,7 .7439 65,3 .384 .39351 107,4 .07425 39,2 .36531 80,7 .7703 66,4 .384 .39351 107,5 .07464 39,4 .36618 86,6 .7309 64,4 .384 .39351 107,5 .07464 39,4 .36618 86,6 .7309 64,4 .384 .39351 107,5 .07464 39,4 .36618 86,6 .7309 64,4 .384 .39351 107,6 .07622 39,8 .36903 86,5 .7181 .0302 .40212 107,8 .0782 40,2 .3738 86,5 .7054 .394 .30608 86,0 .70537 66,4 .394 .40427 107,9 .0782 40,3 .3739 .3661 .6636 61, .3904 .40427 107,9 .0782 40,3 .3739 .366,0 .6635 62, .3956 100,5 .0782 40,3 .3739 .366,0 .6635 62, .3956 100,5 .0782 40,3 .3739 .366,0 .6635 62, .3956 .40043 100,0 .0782 40,3 .3739 .366,0 .6635 62, .3958 .40089 100,0 .0782 40,3 .3739 .366,0 .6635 62, .3958 .40089 100,0 .0782 40,3 .3739 .366,0 .6635 62, .3958 .40089 100,0 .0782 40,3 .3739 .386,0 .6635 62, .3956 .0000 .3000 .3000	• 339	, .300/2	-55,5				00	0.60	720
361 .36889 100,0 .00587 3309 .34607 88.0 .8821 73.1 362 .36906 106,6 .06624 37.0 .34607 88.0 .8821 73.1 362 .36906 106,7 .06668 37.1 .34785 87.0 .8748 72.6 .334 .37202 106,7 .06698 37.2 .34873 87.8 .8675 72.2 .3653 0.37316 106,7 1.06736 37.3 0.34061 87.8 .8532 71.4 .366 .37423 106,8 .06810 37.5 .35136 87.7 .8450 71.0 .366 .37423 106,8 .06810 37.5 .35136 87.7 .8450 71.0 .368 .37520 106,8 .06886 37.7 .35136 87.7 .8450 70.0 .368 .3763 106,8 .06818 37.6 .35224 87.6 .8390 70,6 .360 .37743 106,9 .06886 37.7 .35312 87.5 .8310 70.2 .371 .37057 107,0 .06961 38.0 .35487 87.4 .8150 69.4 .371 .37057 107,0 .06961 38.0 .35487 87.4 .8110 69.0 .373 .38171 107,0 .07037 38.2 .35601 87.3 .8110 69.0 .373 .38171 107,0 .07037 38.2 .35601 87.3 .8110 69.0 .373 .38171 107,0 .07037 38.2 .35601 87.3 .8110 69.0 .375 0.38385 107,1 1.07114 38.4 0.3836 87.2 .27005 69.2 .377 .38590 107,2 .07152 38.5 .35923 87.1 .7837 67.5 .377 .38590 107,2 .07152 38.5 .35923 87.1 .7837 67.5 .377 .38590 107,2 .07151 38.6 .36010 87,0 .7770 67.3 .38110 107,3 .07268 38.8 .3604 86.9 .7037 66.7 .39 .38110 107,3 .07268 38.8 .36184 86.9 .7037 66.7 .39 .3908 107,3 .0736 39.0 .36538 86.8 .7505 66.0 .380 .39361 107,4 .07385 39.1 .36444 86.7 .7439 65.3 .383 .39243 107,4 .07425 39.4 .36018 86.6 .7037 66.7 .383 .39243 107,4 .07425 39.4 .36018 86.6 .7037 66.7 .383 .3928 107,5 .07464 39.4 .36018 86.5 .7781 63.3 .3928 107,5 .07464 39.4 .36018 86.5 .7781 63.3 .3960 107,5 .07464 39.4 .36018 86.5 .7781 63.3 .3928 107,5 .07464 39.4 .36018 86.5 .7781 63.3 .3924 107,6 .0752 39.9 .37090 86.3 .6991 62.3 .3936 107,6 .0762 39.9 .37090 86.3 .6991 62.3 .394 .40427 107,9 .0782 40.0 .37136 86.2 .2.6928 6239136 .40043 107,9 .0782 40.2 .37394 86.0 .6742 63.3 .3938 .40889 107,8 .0782 40.2 .37394 86.0 .6742 63.3 .3938 .40889 107,8 .0782 40.2 .37394 86.0 .6742 63.3 .3938 .40889 108.0 .0806 41.0 .37995 85.6 .6379 59.3 .394 .40047 108,1 .07044 40.6 .37652 40.2 .37394 86.0 .6742 61390 .40047 108,1 .07044 40.6 .37652 85.8 .6000 .6662 60.0 .390 .40047 108,1 .0006 41.0 .37995 85.6 .6379 5939	0.360	0.36783	106.6	1.06550		0.34521			
. 3602 . 360906 106,0 . 00024 37.0 . 3497/ . 34785 . 87.9 . 87.8 . 72.6 . 363 . 37102 106,7 . 06668 . 37.1 . 34785 . 87.8 . 8675 . 72.2 . 363 . 37102 106,7 . 06698 . 37.2 . 34873 . 87.8 . 8675 . 72.2 . 365 . 37.2 . 37.4 . 35049 . 87.8 . 8532 . 71.4 . 366 . 37423 . 106,8 . 06810 . 37.5 . 35104 . 87.7 . 8460 . 71.0 . 368 . 37636 . 106,8 . 06810 . 37.5 . 35136 . 87.7 . 8460 . 71.0 . 368 . 37636 . 106,8 . 06810 . 37.5 . 35136 . 87.7 . 8460 . 71.0 . 368 . 37636 . 106,8 . 06818 . 37.5 . 35136 . 87.6 . 8390 . 70.6 . 368 . 3774 . 106,9 . 06886 . 37.7 . 35312 . 87.6 . 8390 . 70.6 . 370 . 0.37850 . 106,9 . 0.6923 . 37.9 . 0.35399 . 87.5 . 2. 8240 . 69.8 . 371 . 37957 . 107,0 . 06901 . 38.0 . 33487 . 87.4 . 8180 . 69.4 . 372 . 38604 . 107,0 . 0.6990 . 38.1 . 35574 . 87.3 . 8110 . 69.0 . 373 . 38171 . 107,0 . 0.7037 . 38.2 . 35661 . 87.3 . 8110 . 69.0 . 373 . 38171 . 107,0 . 0.7037 . 38.2 . 35661 . 87.3 . 87.1 . 7973 . 68,2 . 375 . 38599 . 107,2 . 0.7152 . 38.5 . 35023 . 87.1 . 7973 . 68,2 . 376 . 38892 . 107,2 . 0.7152 . 38.5 . 35023 . 87.1 . 7837 . 67.5 . 370 . 38899 . 107,2 . 0.7250 . 38,7 . 36010 . 87.0 . 7770 . 67.1 . 378 . 38599 . 107,2 . 0.7250 . 38,7 . 36010 . 87.0 . 7770 . 67.1 . 381 . 39028 . 107,3 . 0.7268 . 38,8 . 36184 . 86,9 . 7637 . 66,7 . 383 . 39243 . 107,3 . 0.7268 . 38,8 . 36184 . 86,9 . 7637 . 66,7 . 383 . 39243 . 107,4 . 0.7385 . 39,1 . 30444 . 86,7 . 7439 . 66,3 . 384 . 39351 . 107,5 . 0.7464 . 39,4 . 36618 . 86,5 . 7.755 . 65,5 . 386 . 39589 . 107,5 . 0.7543 . 39,0 . 36271 . 86,4 . 7181 . 633 . 3928 . 39889 . 107,7 . 0.7662 . 39,8 . 36618 . 86,5 . 7.755 . 65,5 . 386 . 39689 . 107,7 . 0.7662 . 39,9 . 37050 . 86,3 . 7054 . 63,3 . 394 . 40104 . 107,7 . 0.7782 . 40,1 . 37222 . 86,1 . 0.860 . 61, . 394 . 40047 . 107,8 . 0.782 . 40,2 . 37308 . 86,1 . 0.860 . 61, . 394 . 40047 . 107,9 . 0.7662 . 39,9 . 37050 . 86,3 . 0.568 . 61, . 394 . 40047 . 107,9 . 0.7682 . 40,3 . 37394 . 86,6 6379 . 59		36880		.06587	36,9	.34609			
303   37102   106,7   .06661   37,1   .34785   87,0   .8745   72,2	262			.06624	37,0	.34697		8821	73,1
. 364   .37209   106,7   .06698   37,2   .34873   87,8   .8075   74,2   0.365   0.37316   106,7   1.06736   37,3   0.34961   87,8   2.8603   71,8   366   .37423   106,8   .06773   37,4   .35049   87,7   .8460   71,0   367   .37520   106,8   .06810   37,5   .35136   87,7   .8460   71,0   368   .37636   106,8   .06848   37,6   .35224   87,6   .8390   70,6   369   .37743   106,9   .06984   37,7   .35312   87,5   .8319   70,2   371   .37957   107,0   .06061   38,0   .35487   87,4   .8180   69,4   372   .3804   107,0   .06093   38,1   .35574   87,3   .8110   69,0   373   .38171   107,0   .07037   38,2   .3561   87,3   .8042   68,6   373   .38171   107,0   .07076   38,3   .35749   87,2   .7973   68,2   376   .38492   107,2   .07152   38,5   .35023   87,1   .7837   67,5   377   .38599   107,2   .07191   38,6   .36010   87,0   .7703   66,7   378   .38814   107,3   .07268   38,8   .36184   86,9   .7037   66,7   381   .39028   107,3   .07346   39,0   .36358   86,8   .7505   66,7   382   .30136   107,4   .07385   39,1   .36444   86,7   .7340   .3843   .39243   107,4   .07425   39,2   .36531   86,7   .7374   .3843   .39243   107,4   .07425   39,2   .36531   86,7   .7374   .3843   .39243   107,4   .07425   39,2   .36531   86,7   .7374   .436   .386   .39566   .07,5   .07543   39,0   .36791   86,2   .7054   .386   .39566   .07,5   .07543   39,0   .36791   86,2   .7054   .386   .39566   .07,5   .07543   39,0   .36791   86,5   .7181   .634   .392   .40212   .107,8   .07622   39,8   .36093   86,3   .7054   .634   .392   .40212   .107,8   .07622   39,8   .36093   86,3   .6991   .624   .392   .40212   .107,8   .07622   39,8   .36093   86,3   .6991   .624   .393   .404042   .107,7   .07782   .40,2   .37238   .86,1   .6804   .66,3   .396   .40643   .07,0   .07622   .398   .40635   .06805   .07622   .398   .40635   .06805   .07622   .398   .404042   .07622   .07622   .398   .40635   .06805   .07622   .398   .40635   .06805   .07622   .398   .40635   .06805   .07682   .403   .37388   .40390   .07682   .4034   .40427   .07692   .07682	262			.06661		.34785			
0.365	364				37,2	.34873	87,8	.8075	72,2
0.365							0,,0	2 8602	71.8
100,8	0.365	0.37316	106,7				0		
366	.366	.37423					0/,/		
. 368	:367	.37529							
0.370 0.37850 106,9 1.06023 37,9 0.35399 87,5 2.8249 69,8 371 37957 107,0 0.6091 38,1 35574 87,3 8110 69,0 373 3804 107,0 0.7037 38,2 35661 87,3 8042 68,6 8,3 374 38278 107,1 0.7076 38,3 35749 87,2 7.7073 68,2 373 38471 107,0 0.7076 38,3 35749 87,2 7.7073 68,2 376 38492 107,2 0.7152 38,5 35749 87,2 7.7073 68,2 376 38492 107,2 0.7152 38,5 35023 87,1 7.837 67,5 376 38492 107,2 0.7151 38,6 36010 87,0 7.770 67,1 378 38590 107,2 0.7230 38,7 36010 87,0 7.770 67,1 378 38590 107,2 0.7230 38,7 36097 87,0 7.703 66,4 379 38814 107,3 0.7268 38,8 36184 80,9 7637 66,4 381 39028 107,3 0.7268 38,8 36184 80,9 7637 66,4 381 39028 107,3 0.7346 39,0 36358 86,8 7.7505 65,7 383 39243 107,4 0.7385 39,1 36444 86,7 7.7430 65,3 382 39136 107,4 0.7425 39,2 36531 86,7 7.7430 65,3 382 39136 107,4 0.7425 39,4 36618 86,6 7.7304 64,6 386 3956 107,5 0.7543 39,4 36618 86,6 7.7304 64,6 386 3956 107,5 0.7543 39,4 36618 86,6 7.7304 64,6 386 3956 107,5 0.7543 39,4 36618 86,6 7.7304 64,6 386 3956 107,5 0.7543 39,4 36618 86,6 7.7304 64,6 387 39673 107,6 0.7522 39,8 39673 107,6 0.7522 39,8 39673 107,6 0.7522 39,8 39693 86,3 7054 63,3 392 3988 39781 107,6 0.07522 39,8 36618 86,6 7.7181 63,3 392 3988 39781 107,6 0.07522 39,8 36618 86,2 2.7245 64,3 392 3988 39781 107,6 0.07522 39,8 36618 86,0 0.6681 62,3 392 40212 107,8 0.07622 39,8 3663 86,3 7054 63,3 392 40212 107,8 0.07622 39,8 3663 86,3 7054 63,3 392 40212 107,8 0.07622 39,8 36603 86,3 7054 63,3 392 40212 107,8 0.07622 39,8 36603 86,1 0.6601 62,3 394 404027 107,9 0.07624 40,1 3.7222 86,1 0.666 62,3 394 404027 107,9 0.07624 40,0 0.37136 86,2 2.6928 62,3 394 404027 107,9 0.07624 40,1 3.7322 86,1 0.6601 62,3 394 404027 107,9 0.07624 40,0 0.37136 86,2 2.6928 62,3 394 404027 107,9 0.07624 40,1 3.7322 86,1 0.6601 62,3 394 404027 107,9 0.07624 40,0 0.37136 86,2 2.6928 62,3 394 404027 107,9 0.07624 40,0 0.37136 85,0 0.6681 61,3 394 404027 107,9 0.07624 40,0 0.37136 85,0 0.6681 61,3 394 404027 107,9 0.07624 40,0 0.37136 85,0 0.6681 61,3 394 404027 107,9 0.07624 40,0 0.37136 85,0 0.6681 61,3 394 404027 107,9 0	368	.37636	106,8		37,0				
0.370	.369		106,9	.06886	37,7	-35312	07,5	.0319	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
0.376			6-	- 06000	270	0 25200	87.5	2.8240	
372   38064   107,0   .06999   38,1   .35574   87,3   .8042   68,6   .373   .38171   107,0   .07076   38,3   .355749   87,2   .7973   68,2   .373   .38278   107,1   .07076   38,3   .35749   87,2   .7973   68,2   .376   .38492   107,2   .07152   38,5   .35923   87,1   .7837   .67,5   .376   .38492   107,2   .07191   38,6   .36010   87,0   .7770   .7703   .7783   .38707   107,2   .07230   38,7   .36097   87,0   .7703   .7703   .7703   .379   .38814   107,3   .07268   38,8   .36184   86,9   .7637   .66,4   .379   .381   .39028   107,3   .07346   39,0   .36358   86,8   .27570   .381   .39028   107,4   .07425   39,2   .36531   86,7   .7344   .384   .39351   107,5   .07464   39,4   .36618   86,6   .7309   .4064   .07582   39,8   .3663   86,3   .7054   .386   .39781   107,5   .07582   39,7   .36677   86,4   .7117   .763, .388   .39781   107,6   .07582   39,7   .36677   86,4   .7117   .763, .389   .39989   107,7   .07662   39,9   .37050   86,3   .7054   .63,3   .3914   .40104   107,7   .07662   39,9   .37050   86,1   .6864   .61, .392   .40212   107,8   .07822   40,2   .3738   .36618   .6864   .61, .392   .40447   107,9   .07863   40,4   .37480   86,0   .6681   .61, .393   .40319   107,8   .07822   40,2   .37396   86,1   .6864   .61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   .61, .394   .40427   107,9   .07862   40,9   .37566   85,9   2.6620   60, .395   .40643   107,9   .07862   40,9   .37566   85,9   2.6620   60, .395   .40643   107,9   .07862   40,9   .37566   85,9   2.6620   60, .395   .40643   107,9   .07862   40,9   .37566   85,9   2.6620   60, .396   .40643   107,9   .07862   40,9   .37566   85,9   2.6620   60, .395   .40643   107,9   .07862   40,9   .37824   85,7   .6438   59   .3097   .40751   108,0   .07982   40,2   .37308   86,1   .6680   60, .300   .40643   107,9   .07863   40,4   .37480   86,0   .6681   61, .300   .40643   107,9   .07863   40,4   .37652   85,8   .6490   60, .300   .40643   107,9   .07863   40,4   .37652   85,8   .6490   60, .300   .40643   107,9   .07863   40,4   .3					3/19				69,4
- 372   3804   107,0   .00939   38,2   .35561   87,3   .8042   68,6   .374   .38278   107,1   .07076   38,3   .35749   87,2   .7973   68,2   .374   .38278   107,1   .07076   38,3   .35749   87,2   .7973   68,2   .3756   .38492   107,2   .07152   38,5   .35923   87,1   .7837   67,5   .376   .38599   107,2   .07191   38,6   .36010   87,0   .7770   67,1   .378   .38707   107,2   .07230   38,7   .36097   87,0   .77703   66,7   .379   .38814   107,3   .07268   38,8   .36184   86,9   .7637   66,4   .379   .38814   107,3   .07268   38,8   .36184   86,9   .7637   66,4   .379   .38814   107,3   .07365   39,1   .36444   86,7   .7439   .382   .39136   107,4   .07385   39,1   .36444   86,7   .7439   .384   .39351   107,5   .07464   39,4   .36618   86,6   .7309   64,6   .385   .39566   107,5   .07543   39,6   .36791   86,5   .7181   .3386   .39566   107,5   .07582   39,7   .36877   86,4   .7117   .3388   .39781   107,6   .07622   39,8   .36063   86,3   .7054   .388   .39781   107,6   .07622   39,8   .36633   86,2   .7505   .63388   .39781   107,6   .07622   39,8   .36633   86,2   .7505   .63388   .39781   107,6   .07622   39,8   .36633   86,2   .7181   .634   .389   .39089   107,7   .07662   39,9   .37050   86,5   .7181   .634   .392   .40212   107,8   .07742   40,1   .37222   86,1   .6866   62, .393   .40319   107,8   .07822   40,3   .37394   86,0   .6681   61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   61, .394   .40427   107,9   .07863   40,4   .37480   86,0   .6681   61, .399   .40643   107,9   .07863   40,4   .37480   86,0   .6681   61, .399   .40643   107,9   .07863   40,4   .37480   86,0   .6681   61, .399   .40643   107,9   .07863   40,4   .37480   86,0   .6681   61, .399   .40647   108,0   .07864   40,6   .37652   85,8   .6499   60, .399   .40647   108,0   .08025   40,9   .37824   85,7   .6438					20,0 20,0				69,0
373   38171   107,0   .07076   38.3   .35749   87,2   .7973   68,2	.372	.38054	107,0		30,1	25661	87.2	.8042	68,6
0.374		.38171			30,2			7073	-pi //3 -
0.375	•374	.38278	107,1	.07070	30,3	•33/45	0,,2		10
0.375		0 0000	T07 T	1.07114	38.4	0.35836			.del
. 370					1 0 -		87,1	.7837	
. 378		0.22		1	1 0/		87.0	.7770	
.378       .38707       .38814       107,3       .07268       38,8       .36184       86,9       .7637       66,4         0.380       0.38921       107,3       1.07307       38,9       0.36271       86,8       2.7570       66,0         .381       .39028       107,3       .07346       39,0       .36358       86,8       .7505       65,7         .382       .39136       107,4       .07425       39,1       .36444       86,7       .7439       65,3         .383       .39243       107,4       .07425       39,2       .36531       86,7       .7374       64,6         .384       .39351       107,5       .07464       39,4       .36618       86,6       .7309       64,6         .385       .39566       107,5       1.07503       39,5       0.36704       86,5       2.7245       64,2         .387       .39673       107,6       .07582       39,7       .36873       86,3       .7054       63,3         .389       .39781       107,6       .07622       39,8       .36963       86,3       .7054       63,3         .380       .3989       107,7       .07662       39,9       .37336	•377	30599			38.7	3600			66,7
0.380	•37 <sup>8</sup>	38707	10/,2		38.8	3618			
0.380	•379	.30012	10/,3	1 .5,200		1			
.381         .39028         107,3         .07346         39,0         .36358         80,8         .7505         .557           .382         .39136         107,4         .07385         39,1         .36444         86,7         .7439         65,3           .383         .39243         107,4         .07425         39,2         .36531         86,7         .7374         64,6           .384         .39351         107,5         .07464         39,4         .36618         86,6         .7309         64,6           0.385         0.30458         107,5         .07543         39,5         .36701         86,5         .7181         63,6           .386         .39566         107,5         .07543         39,6         .36701         86,5         .7181         63,6           .387         .39673         107,6         .07522         39,8         .36963         86,3         .7054         63,3           .389         .39781         107,6         .07622         39,8         .36963         86,3         .7054         63,3           .390         .393096         107,7         1.07702         40,0         0.37136         86,2         2.6928         62,	0 200	0.2802	107.3	1.0730	7   38,9	0.3627		2.7570	
. 382	0.300		107.3						
. 383	• 30	3012				3644		·7439	
.383       .39351       107,5       .07464       39,4       .36618       86,6       .7309       04,0         0.385       0.39458       107,5       1.07503       39,5       0.36704       86,5       2.7245       64,2         .386       .3956       107,5       .07582       39,7       .36877       86,4       .7117       63,6         .387       .39673       107,6       .07622       39,8       .36963       86,3       .7054       63,7         .388       .39781       107,6       .07622       39,9       .37050       86,3       .6991       62,1         0.300       0.39096       107,7       1.07702       40,0       0.37136       86,2       2.6928       62,1         .391       .40104       107,7       .07742       40,1       .37222       86,1       .6866       62,2         .392       .40212       107,8       .07822       40,2       .37308       86,1       .6866       62,4         .393       .40427       107,9       .07863       40,4       .37480       86,0       .6742       61,5         .394       .40427       107,9       .07963       40,5       0.37566       85,9	.302	3024				3653	- 1		3 1 2 2
0.385	•30,					1 ///		·7309	9   04,0
0.385	_	ļ					. 06.	0 704	64.5
. 386	0.38	5 0.3945	8 107,5		3 39,				62.0
.387         .39673         107.6         .07582         39.8         .36963         86.3         .7054         63.7           .389         .39781         107.6         .07622         39.8         .36963         86.3         .6991         62.7           .389         .3989         107.7         .07662         39.9         .37050         86.3         .6991         62.7           0.390         0.39996         107.7         1.07702         40.0         0.37136         86.2         2.6928         62.7           .391         .40104         107.7         .07742         40.1         .37222         86.1         .6866         62.7           .392         .40212         107.8         .07822         40.2         .37308         86.0         .6742         61.7           .393         .40319         107.8         .07822         40.3         .37394         86.0         .6681         61.7           .394         .40427         107.9         .07863         40.4         .37480         86.0         .6681         61.7           0.395         0.40535         107.9         1.07903         40.5         0.37566         85,9         2.6620         60.7	.38	6 .3956	6 107,	2 1 20					
. 388	.38	7 .3967	3 107,0	.0758	2 39,				
389   .3989   .107,7   .07662   39,9   .37050   80,3   .0991	38	8 .3978	1 107,0	5 .0762	2 39,				.0 1
0.390       0.39996       107,7       1.07702       40,0       0.37136       86,2       2.6928       62,         .391       .40104       107,7       .07742       40,1       .37222       86,1       .6806       62,         .392       .40212       107,8       .07822       40,2       .37308       86,1       .6804       61,         .393       .40319       107,8       .07822       40,3       .37394       86,0       .6742       61,         .394       .40427       107,9       .07863       40,4       .37480       86,0       .6681       61,         0.395       0.40535       107,9       1.07903       40,5       0.37566       85,9       2.6620       60,         .396       .40643       107,9       .07944       40,6       .37652       85,8       .6559       60,         .397       .40751       108,0       .07984       40,8       .37738       85,8       .6490       60,         .398       .40859       108,0       .08065       41,0       .37909       85,6       .6379       59         0.400       0.41075       108,1       1.08107       41,1       0.37995       85,6       2			9 107,	7 .0766	2 39,9	3705	,U OU,	-	#
0.300 0.30990 107,7 .07742 40,1 .37222 86,1 .6866 62, 391 .40104 107,7 .07742 40,1 .37222 86,1 .6804 61, 392 .40212 107,8 .07822 40,2 .37308 86,1 .6804 61, 393 .40319 107,8 .07822 40,3 .37394 86,0 .6742 61, 394 .40427 107,9 .07863 40,4 .37480 86,0 .6681 61,  0.395 0.40535 107,9 1.07903 40,5 0.37566 85,9 2.6620 60, 396 .40643 107,9 .07944 40,6 .37652 85,8 .6559 60, 397 .40751 108,0 .07944 40,8 .37738 85,8 .6490 60, 398 .40859 108,0 .08025 40,9 .37824 85,7 .6438 59, 399 .40967 108,1 .08066 41,0 .37909 85,6 .6379 59  0.400 0.41075 108,1 1.08107 41,1 0.37905 85,6 2.6319 59		1	- 10% as		2 40	0.2712	6 86	2 2.602	8 62,
391    .40104   107,8   .07782   40,2   .37308   86,1   .6804   61,			1				. 1 ~/	ı   .686	6 62,
392   40212   107,8   .07822   40,3   .37394   86,0   .6742   61,			4 107,						4 61 <b>,</b>
393   .40319   107,8   .07863   40,4   .37480   86,0   .6681   61,	.39		2 107,	0 .0/70	2 40,			- 1	
0.395     0.40535     107,9     1.07903     40,5     0.37566     85,9     2.6620     60,60       .396     .40643     107,9     .07944     40,6     .37652     85,8     .6559     60,60       .397     .40751     108,0     .07984     40,8     .37738     85,8     .6499     60,60       .398     .40859     108,0     .08025     40,9     .37824     85,7     .6438     59       .399     .40967     108,1     .08066     41,0     .37909     85,6     .6379     59       0.400     0.41075     108,1     1.08107     41,1     0.37995     85,6     2.6319     59       0.400     0.41075     108,1     1.08107     41,1     0.37995     85,6     2.6319     59		3 .403		· ·	40,	4 374	36 86.		(i. )
0.395	•39	4042	37   107,	9 .0/0	,, 40,	1	1	1	ž.
0.395			E TO7	0 1.0700	03 40.	5 0.375			
.397     .40045     108,0     .07984     40,8     .37738     85,8     .6499     60,397       .398     .40859     108,0     .08025     40,9     .37824     85,7     .6438     59,6       .399     .40967     108,1     .08066     41,0     .37909     85,6     .6379     59       0.400     0.41075     108,1     1.08107     41,1     0.37995     85,6     2.6319     59						6 376	52 85,	8 .655	9 00
.398     .40859     108,0     .08025     40,9     .37824     85,7     .0438     59       .399     .40967     108,1     .08066     41,0     .37909     85,6     .6379     59       0.400     0.41075     108,1     1.08107     41,1     0.37995     85,6     2.6319     59       59     59     59     59     59     59     59     59				0 .070			38 85		
.399 .40967 108,1 .08066 41,0 .37909 85,6 .0379 59  0.400 0.41075 108,1 1.08107 41,1 0.37995 85,6 2.6319 59	• 39				25 40	9 378	24 85		30 59
0.400 0.41075 108,1 1.08107 41,1 0.37995 85,6 2.6319 59		7 .   1		- 1 -			09 85	,0 032	79   59
F/ see ad u w Fo' sin ad u w Fo' csc gd u w Fo'					07 41	,ı o.379	95 85	,6 2.63	19 59
tan gd u w Fo sec yu u	11 0 4		_	·					E/

.439     .45324     109,8     .09792     45,3     .41282     83,0     .4224     48,7       0.440     0.45434     109,8     1.09837     45,4     0.41364     82,9     2.4175     48,4       .441     .45543     109,9     .09883     45.5     .41447     82,8     .4127     48,2       .442     .45653     109,9     .09928     45,7     .41530     82,8     .4079     48,0       .443     .45763     110,0     .09974     45,8     .41613     82,7     .4031     47,7       .444     .45873     110,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4	u	sinh u	ω.F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F₀′
.401 .41183 108,1 .08148 41,2 .38080 85,5 .6260 85,0 .402 .41292 108,2 .08231 41,4 .38251 85,4 .6143 88,3 .404 .41508 108,3 .08272 41,5 .38337 85,3 .6085 88,0 .404 .41508 108,3 .08272 41,5 .38337 85,3 .6085 88,0 .404 .41508 108,3 .08272 41,5 .38337 85,3 .6085 88,0 .404 .41508 108,3 .08272 41,5 .38337 85,3 .6085 88,0 .400 .41725 108,4 .08356 41,7 .38507 85,2 .5059 57,4 .400 .41725 108,4 .08396 41,7 .38507 85,2 .5059 57,4 .400 .41941 108,4 .08436 41,7 .38507 85,0 .5855 56,6 .400 .42050 108,5 .08481 42,0 .38762 85,0 .5708 56,6 .400 .42158 108,5 .108523 42,2 .38762 85,0 .5708 56,6 .411 .42267 108,6 .08568 42,3 .38332 84,8 .5636 55,0 .411 .42257 108,6 .08568 42,3 .38032 84,8 .5636 55,0 .411 .42267 108,6 .08608 42,4 .30017 84,8 .5630 55,7 .414 .42593 108,7 .08650 42,5 .30102 84,7 .5574 55,4 .414 .42593 108,7 .08650 42,5 .30102 84,7 .5574 55,4 .414 .42593 108,7 .08650 42,5 .30102 84,7 .5574 55,4 .414 .42510 108,8 .0878 42,8 .303356 84,6 .5519 55,1 .416 .43810 108,8 .0878 42,8 .303356 84,5 .5409 54,6 .417 .42019 108,8 .08821 42,9 .30400 84,4 .5355 54,0 .419 .43137 108,9 .08907 43,1 .30609 84,3 .5247 53,7 .540 43,1 .43355 100,0 .08904 43,4 .30028 108,9 .08804 43,0 .30524 84,4 .5351 54,0 .421 .43355 100,0 .08904 43,4 .30777 84,2 .5140 53,2 .422 .43640 100,0 .00037 43,5 .30861 84,1 .508 22,4 .420 .43682 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,1 .00981 43,6 .30945 84,0 .4082 109,3 .00983 44,4 .40840 83,6 .4093 10,3 .00945 44,0 .40840 83,6 .4093 10,3 .00945 44,0 .40840 83,0 .4095 109,3 .00945 4	0,400	0.41075	108.1	1.08107	41.1	0.37995	85.6	2.6310	50.3
								.6260	
	.402	.41292	108,2		41,3		85,4	.6201	58,7
0.405									58,3
	.404	.41500	100,3	.002/2	41,5	.30337	05,3	,0085	50,0
.407   .41833   108.4   .08397   41.8   .38592   85.1   .5912   57.1   .5914   .5865   .5865   .5865   .6840   .42050   108.5   .08481   42.0   .38672   85.0   .5855   .5865   .566   .409   .42050   108.5   .08481   42.0   .38672   85.0   .5798   .566   .566   .400   .42158   108.5   1.08523   42.2   0.38847   84.9   2.5742   .563   .411   .42267   108.6   .08566   42.3   .38932   84.8   .5630   .55.7   .413   .42484   108.7   .08650   42.5   .39102   84.7   .5574   .554   .414   .42593   108.7   .08693   42.6   .39186   84.6   .5519   .5511   .414   .42593   108.7   .08693   42.6   .39186   84.6   .5519   .5514   .414   .42501   108.8   .08821   42.9   .39340   84.4   .5335   .5409   .417   .42910   108.8   .08821   42.9   .39340   84.4   .5335   .5409   .419   .43137   108.9   .08907   43.1   .39609   84.3   .5247   .53.7   .421   .43355   109.0   .08994   43.4   .39777   84.2   .5140   .53.2   .422   .43464   109.0   .09374   43.6   .39840   .434   .5335   .5429   .422   .43464   109.0   .09374   43.6   .39045   84.0   .5034   .527   .422   .43602   109.0   .08994   43.4   .39777   84.2   .5140   .53.2   .422   .43602   109.0   .09037   43.5   .39861   84.1   .5087   .53.2   .422   .43602   109.0   .09124   43.7   .40029   84.0   .5034   .527   .422   .43602   109.1   .09124   43.7   .40029   84.0   .5034   .527   .422   .43602   109.1   .09124   43.7   .40029   84.0   .5034   .527   .422   .44009   109.3   .09256   44.0   .40281   83.8   .4866   .5160   .4280   .44110   109.3   .09300   44.1   .40365   83.7   .4774   .514   .4228   .109.3   .09256   44.0   .40281   83.8   .4866   .5160   .4280   .44101   109.3   .09300   44.1   .40365   83.7   .4774   .514   .4220   .44228   109.3   .09256   44.0   .40281   83.8   .4866   .5160   .4280   .44410   109.3   .09300   44.1   .40365   83.7   .4774   .514   .4220   .44228   .109.5   .09522   44.7   .40783   83.4   .4520   .511   .4322   .4221   .4906   .4335   .44261   .40975   .09566   44.0   .40609   .4336   .44723   .4310   .44775   .09566   45.0   .41032   .42									
.408				08350					
.409							85.0		
.411							85,0		<b>5</b> 6,6
.411	0.410	0.42158	108,5	1.08523	42,2	0.38847	84.0	2,5742	56.3
.412 .42376 108,6 .08608 42,4 .39017 84,8 .5630 55.7 .413 .42484 108,7 .08693 42,5 .39102 84,7 .5574 55.4 .414 .42593 108,7 .08693 42,6 .39102 84,7 .5574 55.4 .416 .42810 108,8 .0878 42,8 .39356 84,5 .5409 54,6 .417 .42919 108,8 .08321 42,9 .39440 84,4 .5355 54,3 .418 .43028 108,9 .08864 43,0 .39524 84,4 .5355 54,3 .418 .43028 108,9 .08864 43,0 .39524 84,4 .5355 54,3 .419 .43137 108,9 .08907 43,1 .39609 84,3 .5247 53,7 0.420 0.43246 109,0 1.08950 43,2 0.30693 84,2 2.5193 53,5 .421 .43355 109,0 .09037 43,5 .39861 84,1 .5087 52,9 .422 .43404 109,0 .09037 43,5 .39861 84,1 .5087 52,9 .423 .43573 109,1 .09081 43,6 .39045 84,0 .4982 52,4 .424 .43682 109,1 .09124 43,7 .40029 84,0 .4982 52,4 0.425 0.43701 109,2 1.09168 43,8 0.40113 83,9 2.4020 52,4 .426 .43900 109,3 .09256 44,0 .40281 83,8 .4877 51,9 .427 .44009 109,3 .09364 44,4 .40616 83,5 .4621 50,6 .428 .44119 109,3 .09300 44,1 .40365 83,7 .4774 51,4 .429 .4428 109,3 .09344 44,2 .40449 83,6 .4723 51,1 0.430 0.44337 109,4 1.09388 44,3 0.40532 83,6 2.4672 50,9 .431 .44447 109,4 .09433 44,4 .40616 83,5 .4621 50,6 .432 .44556 109,5 .09522 44,7 .40049 83,2 2.4422 50,4 .433 .44566 109,5 .09370 44,6 .40606 83,4 .4571 50,4 .434 .44775 109,6 .09367 44,8 .40866 83,3 .4470 49,9 0.435 0.44885 109,6 1.09611 44,9 0.40049 83,2 2.4421 49,6 .433 .44566 109,5 .09522 44,7 .40783 83,4 .4520 50,1 .434 .44775 109,6 .09567 44,8 .40866 83,3 .4273 48,9 .435 .44556 109,5 .09522 44,7 .40783 83,4 .4520 50,1 .436 .44995 109,7 .09761 45,1 .41115 83,1 .4322 49,2 .437 .45104 109,7 .09701 45,1 .41115 83,1 .4322 49,2 .438 .45214 109,7 .09761 45,2 .41199 83,0 .4273 48,9 .439 .45324 109,8 .09883 45,5 .41364 82,8 .4127 48,2 .441 .45543 109,9 .09883 45,5 .41364 82,8 .4127 48,2 .444 .45631 110,0 .10020 45,9 .41695 82,6 .3983 47,5 0.445 .0.45983 110,1 .10166 46,0 .41778 82,5 .23936 47,3 .440 .45031 110,1 .10112 46,1 .41861 82,5 .3889 47,1 .444 .45034 110,2 .10158 46,2 .41403 82,3 .3749 46,4			108,6	.08566			84,8		56,0
0.415							84,8	. 5630	
0.415							84,7		55,4
.416	.414	•42593	108,7	.08093	42,0	.39180	84,0	.5519	55,1
.417				1.08736	42,7				
.418			100,0	08821					
.419         .43137         108.9         .08907         43.1         .39609         84.3         .5247         53.7           0.420         0.43246         109,0         1.08950         43.2         0.39693         84.2         2.5193         53.5           .421         .43355         109,0         .09037         43.5         .39861         84.1         .5087         52.9           .422         .43404         109,0         .09037         43.5         .39861         84.1         .5087         52.9           .423         .43573         109,1         .09081         43.6         .39945         84.0         .5034         52.7           .424         .43682         109,1         .09018         43.8         0.40113         83.9         2.4929         52.2           .425         .43701         109,2         1.09168         43.8         0.40113         83.9         2.4929         52.2           .426         .43900         109,2         1.09168         43.8         0.4017         83.8         .4877         51.9           .427         .44009         109,3         .09256         44.0         .40381         83.8         .4877         51.9							84.4		
.421 .43355 109,0 .08994 43,4 .39777 84,2 .5140 53,2 .422 .43464 109,0 .09037 43,5 .39861 84,1 .5087 52,9 .423 .43573 109,1 .09081 43,6 .39945 84,0 .5034 52,7 .424 .43682 109,1 .09124 43,7 .40029 84,0 .4982 52,4 .426 .43900 109,2 .09212 43,9 .40197 83,8 .4877 51,9 .427 .44009 109,3 .09256 44,0 .40281 83,8 .4826 51,6 .428 .44119 109,3 .09300 44,1 .40365 83,7 .4774 51,4 .429 .44228 109,3 .09344 44,2 .40449 83,6 .4723 51,1 .42447 109,4 .09433 44,4 .40365 83,5 .4621 50,6 .433 .44666 109,5 .09477 44,6 .40699 83,4 .4571 50,6 .433 .44666 109,5 .09522 44,7 .40783 83,4 .4520 50,1 .434 .44775 109,6 .09567 44,8 .40866 83,3 .4470 49,9 .435 0.44885 109,7 .09656 45,0 .41032 83,2 2.4421 49,6 .436 .44905 109,7 .09656 45,0 .41032 83,2 2.4421 49,6 .436 .44905 109,7 .09656 45,0 .41032 83,2 2.4421 49,6 .436 .44905 109,7 .09656 45,0 .41032 83,2 2.4421 49,6 .436 .44905 109,7 .09656 45,0 .41032 83,2 2.4421 49,6 .438 .45214 109,7 .09701 45,1 .41115 83,1 .4322 49,2 .4351 109,8 .09792 45,3 .41282 83,0 .4224 48,7 .439 .45234 109,8 .09792 45,3 .41282 83,0 .4224 48,7 .44563 109,9 .09883 45,5 .41282 83,0 .4224 48,7 .4444 .45873 110,0 .09944 45,8 .41633 82,7 .4079 48,0 .4443 .45763 110,0 .09944 45,8 .41633 82,7 .4079 48,0 .4444 .45873 110,0 .09028 45,7 .41530 82,8 .4079 48,0 .4444 .45873 110,0 .09028 45,7 .41530 82,8 .4079 48,0 .4444 .45873 110,0 .09024 45,8 .41613 82,7 .4031 47,7 .4444 .45873 110,0 .09024 45,8 .41633 82,7 .4031 47,7 .4444 .45873 110,0 .09024 45,8 .41613 82,7 .4031 47,7 .4444 .45873 110,0 .009024 45,8 .41613 82,7 .4031 47,7 .4444 .45873 110,0 .009024 45,8 .41613 82,7 .4031 47,7 .4444 .45873 110,0 .10020 45,9 .41695 82,6 .3983 47,5 .4468 .46031 110,1 .10112 46,1 .41861 82,5 .3889 47,1 .4447 .46204 110,2 .10158 46,2 .41943 82,4 .3842 46,8 .4488 .46314 110,2 .1024 46,3 .42025 82,3 .3795 46,6 .4409 .46424 110,3 .10251 46,4 .42108 82,3 .3749 46,4									
.421 .43355	0.420	0.43246	109,0	1.08950	43,2	0.39693	84,2	2,5103	53.5
.423	.421				43,4		84,2		
.424       .43082       109,1       .09124       43,7       .40029       84,0       .4982       52,4         0.425       0.43791       109,2       1.09168       43,8       0.40113       83,9       2.4929       52,2         .426       .43900       109,2       .09212       43,9       .40197       83,8       .4877       51,9         .427       .44009       109,3       .09256       44,0       .40281       83,8       .4826       51,6         .428       .44119       109,3       .09300       44,1       .40365       83,7       .4774       51,4         0.430       0.44337       109,4       1.09388       44,3       0.40532       83,6       2.4672       50,9         .431       .44447       109,4       .09433       44,4       .40616       83,5       .4621       50,6         .432       .44556       109,5       .09477       44,6       .40699       83,4       .4571       50,4         .433       .44666       109,5       .09522       44,7       .40783       83,2       2.4421       49,6         .435       0.44885       109,6       1.09611       44,9       0.40949       83,2							84,1	.5087	52,9
0.425         0.43791         109,2         1.09168         43,8         0.40113         83,9         2.4929         52,2           .426         .43900         109,2         .09212         43,9         .40197         83,8         .4877         51,9           .427         .44009         109,3         .09256         44,0         .40281         83,8         .4826         51,6           .428         .44119         109,3         .09300         44,1         .40365         83,7         .4774         51,4           .429         .44228         109,3         .09344         44,2         .40449         83,6         .4723         51,1           0.430         0.44337         109,4         1.09388         44,3         0.40532         83,6         2.4672         50,9           .431         .44447         109,4         .09433         44,4         .40616         83,5         .4021         50,6           .432         .44556         109,5         .09477         44,6         .40698         83,4         .4571         50,4           .433         .44666         109,5         .09567         44,8         .40866         83,3         .4470         49,9							84,0 84.0		
.420									
.427       .44009       109,3       .09256       44,0       .40281       83,8       .4826       51,6         .428       .44119       109,3       .09300       44,1       .40365       83,7       .4774       51,4         .429       .44228       109,3       .09344       44,2       .40449       83,6       .4723       51,1         0.430       0.44337       109,4       1.09388       44,3       0.40532       83,6       2.4672       50,9         .431       .44447       109,4       .09433       44,4       .40616       83,5       .4621       50,6         .432       .44556       109,5       .09572       44,7       .40783       83,4       .4571       50,4         .433       .44666       109,5       .09522       44,7       .40783       83,4       .4520       50,1         .434       .44775       109,6       .09567       44,8       .40866       83,3       .4470       49,9         0.435       0.44885       109,6       1.09611       44,9       0.40949       83,2       2.4421       49,6         .436       .44995       109,7       .09656       45,0       .41032       83,2				1 - 1			83,9		
.428							82.8		
.429       .44228       IO9,3       .09344       44,2       .40449       83,6       .4723       51,1         0.430       0.44337       IO9,4       I.09388       44,3       0.40532       83,6       2.4672       50,0         .431       .44447       IO9,4       .09433       44,4       .40616       83,5       .4621       50,6         .432       .44556       IO9,5       .09477       44,6       .40690       83,4       .4571       50,4         .433       .44666       IO9,5       .09522       44,7       .40783       83,4       .4520       50,1         .434       .44775       IO9,6       .09567       44,8       .40866       83,3       .4470       49,9         0.435       0.44885       IO9,6       I.09611       44,9       0.40949       83,2       2.4421       49,6         .436       .44995       IO9,7       .09656       45,0       .41032       83,2       .4371       49,4         .437       .45104       IO9,7       .09747       45,2       .41115       83,1       .4322       49,2         .438       .45214       IO9,7       .09747       45,2       .41199       83,0							83,7		
.431       .44447       109,4       .09433       44,4       .40616       83,5       .4621       50,6         .432       .44556       109,5       .09477       44,6       .40690       83,4       .4571       50,4         .433       .44666       109,5       .09522       44,7       .40783       83,4       .4520       50,1         .434       .44775       109,6       .09567       44,8       .40866       83,3       .4470       49,9         0.435       0.44885       109,6       1.09611       44,9       0.40949       83,2       2.4421       49,6         .436       .44995       109,7       .09656       45,0       .41032       83,2       .4371       49,4         .437       .45104       109,7       .09701       45,1       .41115       83,1       .4322       49,2         .438       .45214       109,7       .09747       45,2       .41199       83,0       .4273       48,9         .439       .45324       109,8       .09792       45,3       .41282       83,0       .4224       48,7         0.440       0.45434       109,8       1.09837       45,4       0.41364       82,9	.429	.44228	109,3	.09344	44,2	.40449			
.431       .44447       109,4       .09433       44,4       .40616       83,5       .4621       50,6         .432       .44556       109,5       .09477       44,6       .40690       83,4       .4571       50,4         .433       .44666       109,5       .09522       44,7       .40783       83,4       .4520       50,1         .434       .44775       109,6       .09567       44,8       .40866       83,3       .4470       49,9         0.435       0.44885       109,6       1.09611       44,9       0.40949       83,2       2.4421       49,6         .436       .44995       109,7       .09656       45,0       .41032       83,2       .4371       49,4         .437       .45104       109,7       .09701       45,1       .41115       83,1       .4322       49,2         .438       .45214       109,7       .09747       45,2       .41199       83,0       .4273       48,9         .439       .45324       109,8       .09792       45,3       .41282       83,0       .4224       48,7         0.440       0.45434       109,8       1.09837       45,4       0.41364       82,9	0.430	0.44337	109,4	1.09388	44,3	0.40532	83,6	2.4672	50,9
.433							83,5	.4621	
.434         .44775         IO9,6         .09567         44,8         .40866         83,3         .4470         49,9           0.435         0.44885         IO9,6         I.09611         44,9         0.40949         83,2         2.4421         49,6           .436         .44995         IO9,7         .09656         45,0         .41032         83,2         .4371         49,4           .437         .45104         IO9,7         .09701         45,1         .41115         83,1         .4322         49,2           .438         .45214         IO9,7         .09747         45,2         .41199         83,0         .4273         48,9           .439         .45324         IO9,8         .09792         45,3         .41282         83,0         .4224         48,7           0.440         0.45434         IO9,8         I.09837         45,4         0.41364         82,9         2.4175         48,4           .441         .45543         IO9,9         .09883         45,5         .41447         82,8         .4127         48,2           .442         .45653         IO9,9         .09928         45,7         .41530         82,8         .4079         48,0									
0.435         0.44885         109,6         1.09611         44,9         0.40949         83,2         2.4421         49,6           .436         .44995         109,7         .09656         45,0         .41032         83,2         .4371         49,4           .437         .45104         109,7         .09701         45,1         .41115         83,1         .4322         49,2           .438         .45214         109,7         .09747         45,2         .41199         83,0         .4273         48,9           .439         .45324         109,8         .09792         45,3         .41282         83,0         .4224         48,7           0.440         0.45434         109,8         1.09837         45,4         0.41364         82,9         2.4175         48,4           .441         .45543         109,9         .09883         45,5         .41447         82,8         .4127         48,2           .442         .4563         109,9         .09928         45,7         .41530         82,8         .4079         48,0           .443         .45763         110,0         .09074         45,8         .41613         82,7         .4031         47,7							82.2		
.436	1434	E 1						.4470	
.437         .45104         109,7         .09701         45,1         .41115         83,1         .4322         49,2           .438         .45214         109,7         .09747         45,2         .41199         83,0         .4273         48,9           .439         .45324         109,8         .09792         45,3         .41282         83,0         .4224         48,7           0.440         0.45434         109,8         1.09837         45,4         0.41364         82,9         2.4175         48,4           .441         .45543         109,9         .09883         45,5         .41447         82,8         .4127         48,2           .442         .45653         109,9         .09928         45,7         .41530         82,8         .4079         48,0           .443         .45763         110,0         .09974         45,8         .41613         82,7         .4031         47,7           .444         .45873         110,0         .10020         45,9         .41695         82,6         .3983         47,5           0.445         0.45983         110,1         1.10666         46,0         0.41778         82,5         2.3936         47,3							83,2		
.438     .45214     109,7     .09747     45,2     .41199     83,0     .4273     48,9       .439     .45324     109,8     .09792     45,3     .41282     83,0     .4224     48,7       0.440     0.45434     109,8     1.09837     45,4     0.41364     82,9     2.4175     48,4       .441     .45543     109,9     .09883     45,5     .41447     82,8     .4127     48,2       .442     .45653     109,9     .09928     45,7     .41530     82,8     .4079     48,0       .443     .45763     110,0     .09974     45,8     .41613     82,7     .4031     47,7       .444     .45873     110,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6									
.439       .45324       109,8       .09792       45,3       .41282       83,0       .4224       48,7         0.440       0.45434       109,8       1.09837       45,4       0.41364       82,9       2.4175       48,4         .441       .45543       109,9       .09883       45,5       .41447       82,8       .4127       48,2         .442       .45653       109,9       .09928       45,7       .41530       82,8       .4079       48,0         .443       .45763       110,0       .09974       45,8       .41613       82,7       .4031       47,7         .444       .45873       110,0       .10020       45,9       .41695       82,6       .3983       47,5         0.445       0.45983       110,1       1.10066       46,0       0.41778       82,5       2.3936       47,3         .446       .46093       110,1       .10112       46,1       .41861       82,5       .3889       47,1         .447       .46204       110,2       .10158       46,2       .41943       82,4       .3842       46,8         .448       .46314       110,2       .10204       46,3       .42025       82,3							83.0		
.441     .45543     109,9     .09883     45.5     .41447     82,8     .4127     48,2       .442     .45653     109,9     .09928     45.7     .41530     82,8     .4079     48,0       .443     .45763     110,0     .09974     45,8     .41613     82,7     .4031     47,7       .444     .45873     110,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4			109,8			.41282	83,0	.4224	48,7
.441     .45543     109,9     .09883     45.5     .41447     82,8     .4127     48,2       .442     .45653     109,9     .09928     45.7     .41530     82,8     .4079     48,0       .443     .45763     110,0     .09974     45,8     .41613     82,7     .4031     47,7       .444     .45873     110,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4	0.440	0.45434	109,8		45,4	0.41364	82,0		48.4
.442     .45653     109,9     .09928     45,7     .41530     82,8     .4079     48,0       .443     .45763     110,0     .09974     45,8     .41613     82,7     .4031     47,7       .444     .45873     110,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4		•45543	109,9	.09883	45,5	.41447	82,8		48,2
.444     .45873     IIO,0     .10020     45,9     .41695     82,6     .3983     47,5       0.445     0.45983     IIO,1     I.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     IIO,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     IIO,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     IIO,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     IIO,3     .10251     46,4     .42108     82,3     .3749     46,4					45,7		82,8		48,0
0.445     0.45983     110,1     1.10066     46,0     0.41778     82,5     2.3936     47,3       .446     .46093     110,1     .10112     46,1     .41861     82,5     .3889     47,1       .447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4		45703							47,7
.446     .46093     II0,I     .10112     46,I     .41861     82,5     .3889     47,1       .447     .46204     II0,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     II0,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     II0,3     .10251     46,4     .42108     82,3     .3749     46,4	•444				_				
.447     .46204     110,2     .10158     46,2     .41943     82,4     .3842     46,8       .448     .46314     110,2     .10204     46,3     .42025     82,3     .3795     46,6       .449     .46424     110,3     .10251     46,4     .42108     82,3     .3749     46,4							82,5		
.448 .46314 110,2 .10204 46,3 .42025 82,3 .3795 46,6 .449 .46424 110,3 .10251 46,4 .42108 82,3 .3749 46,4									46.8
.449 .46424 110,3 .10251 46,4 .42108 82,3 .3749 46,4									46,6
0.450 0.46534 110,3 1.10297 46,5 0.42190 82,2 2.3702 46.2				.10251		.42108			46,4
	0.450	0.46534	110,3	1.10297	46,5	0.42190	82,2	2.3702	46,2

0.450 .451 .452 .453 .454 0.455	0.46534 .46645 .46755	110,3	1.10297					in the second of the second of
.451 .452 .453 .454	.46645 .46755		1010091	46,5	0.42190	82,2	2.3702	4
.452 .453 .454	.46755	110,3	.10344	46,6	.42272	82,1	.3656	4
·454 0·455	15.70	110,4	.10390	46,8	.42354	82,1	.3610	4
0.455	.46865	110,4	.10437	46,9	.42436	82,0	.3565	4
	.46976	110,5	.10484	47,0	.42518	81,9	.3519	4.
	0.47086	110,5 110,6	1.10531 .10578	47,1 47,2	0.42600 .42682	81,9 81,8	2.3474 .3429	<b>4</b> 4
.450	.47197 .47307	110,6	.10578	47,2	.42062	81,7	.3384	4
.458	.47418	110,7	.10673	47,4	.42845	81,6	.3340	4
.459	.47529	110,7	.10720	47,5	.42927	81,6	3295	4
0.460	0.47640	110,8	1.10768	47,6	0.43008	81,5	2.3251	4
.461	.47750	110,8	.10816	47,8	.43090	81,4	.3207	4
.462 .463	.47861	110,9	.10863	47,9 48,0	.43171 .43253	81,4 81,3	.3164 .3120	4
.464	.47972 .48083	111,0	10959	48,1	·43233 ·43334	81,2	.3077	4
	774	1. T. S. S. S. S. S. S. S. S. S. S. S. S. S.		48,2		81,2		
0.465 .466	0.48194 .48305	111,0 111,1	1.11007 .11056	48,3	0.43415 .43496	81,1	2.3033 .2991	4 4
467	.48416	111,1	.11104	48,4	·43577	81,0	.2948	4
.468	.48527	111,2	.11153	48,5	.43658	80,9	.2905	4
.469	.48538	111,2	.11201	48,6	•43739	80,9	.2863	4
0.470	0.48750 .48851	111,2 111,3	1.11250	48,7 48,9	0.43820	80,8 80,7	2.2821	4
.471 .472	(8)72	111,3	.11299	49,0	.43981	80,7	.2737	4
.473	19081	111.4	.11397	49,I	.44062	80,6	.2695	4
474	49195	111,4	.11446	49,2	•44143	80,5	.2654	4
0.475	0.49306	111,5	1.11495	49.3	0.44223	80,4	2.2613	4
.476	.49418	111,5	.11544	49,4	.44303	80,4 80,3	.2572	4º 4º
·477 ·478	.49530 .49641	111,6	.11594 .11643	49,5 49,6	.44384 .44464	80,2	.2531 .2490	40
.479	·49753	111,7	.11693	49,8	•44544	80,2	.2450	4
0.480	0.49865	111,7	1.11743	49,9	0.44624	80,1	2.2409	4
.481	.49976	111,8	.11793	50,0	44704	80,0	.2369	4
.482	.50088	111,8	.11843	50,1	.44784 .44864	79,9	.2329	3
.483 .484	.50200 .50312	111,9	.11893	50,2 50,3	·44944	79,9 79,8	.2250	3 3
0.485	0.50424	112,0	1.11994	50,4	0.45024	79,7	2.2210	3
.486	.50536	112,0	.12044	50,5	.45104	79,7	.2171	3
487	.50648	112,1	.12095	50,6	.45183	79,6	.2132	3
488	.50760	112,1	.12145	50,8	.45263	79,5	.2093	3
.489	.50872	112,2	.12196	50,9	•45342	79,4	.2054	.3
0.490 .491	0.50984	112,2	1.12247	51,0 51,1	0.45422 .45501	79,4 79,3	2.2016 .1978	3
.492	.51209	112,3	.12349	51,2	45580	79,3	.1939	3
•493	.51321	112,4	.12401	51,3	.45659	79,2	.1901	3
•494	•51434	112,5	. 12452	51,4		79, I	.1863	.3
0.495	0.51546	112,5	1.12503	51,5	0.45818	79,0	2.1826	3
.496 407	.51659	112,6	12555	51,7	.45897	78,9 78,9	.1788	3
•497 •498	.51771 .51884	112,6	.12659	51,8 51,9	·45975 ·46054	78,8	.1751 .1714	3
.499	51997	112,7	.12711	52,0	.46133	78,7	.1676	3
0.500	0.52110	112,8	1.12763	52,1	0.46212	<b>78,</b> 6	2.1640	3
	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> '	csc gd u	ω Fo

u	şinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> '	tanh u	ω F <sub>0</sub> ′	coth u	∞ F <sub>0</sub> ′
l		<del>ي آ نينن</del> ج		-				
0.500	0.52110	112,8	1.12763 .12815	52,I 52,2	0.46212 .46290	78,6 78,6	2.1640 .1603	36,8 36,7
.502	.52335	112,0	.12867	52,3	.46 <b>3</b> 69	78,5	.1566	36,5
.503	.52448	112,9	.12919	52,4	.46447	78,4	.1530	36,4
.504	.52561	113,0	.12972	52,6	.46526	78,4	. 1493	36,2
0.505	0.52674	113,0	1.13025	52,7	0.46604	78,3	2.1457	36,0
.506	.52787	113,1	13077	52,8	.46682	78,2 78,1	.1421	35.9
.507	.52900	113,1 113,2	.13130	52,9 53,0	.46839	78,1	.1386 .1350	35,7 35,6
509	.53127	113,2	.13236	53,1	.46917	78,0	.1314	35,4
0.510	0.53240	113,3	1.13289	53,2	0.46995	77,9	2.1279	35,3
.511	-53353	113,3	13343	53,4	.47072	77,9	.1244	35,1
.512	.53466	113,4	.13396	53,5	.47150	77,8	.1209	35,0
.513	.53580 .53693	113,4 113,5	.13450	53,6 53,7	47228 47306	77,7 77,6	.1174	34,8
.514								34,7
0.515 .516	0.53807	113,6 113,6	1.13557	53,8 53,9	0.47383 .47461	77,5 77,5	2.1105 .1070	34,5 34,4
.517	.54034	113,7	13665	54,0	.47538	77,4	.1036	34,3
.518	.54148	113,7	.13719	54,1	.47615	77,3	.1002	34,1
.519	.54262	113,8	.13773	54,3	47693	77,3	.0968	34,0
0.520	0.54375	113,8	1.13827	54,4	0.47770	77,2	2.0934	33,8
.521	.54489 .54603	113,9	.13882 .13936	54,5 54,6	.47847 .47924	77,1 77,0	.0900 .0866	33.7
.523	.54717	113,9	.13991	54,7	.48001	77,0	.0833	33,5 33,4
.524	54831	114,0	. 14046	54,8	48078	76,9	.0799	33,3
0.525	0.54945	114,1	1.14101	54,9	0.48155	76,8	2.0766	33,1
.526	.55059	114,2	.14156	55,1	.48232	76,7	.0733	33,0
.527	.55173	114,2	.14211 .14266	55,2 55,3	.48308 .48385	76,7 76,6	.0700	32,9
.520	55402	114,3	.14321	55,4	.48462	76,5	.0635	32,7 32,6
0.530	0.55516	114,4	1.14377	55,5	0.48538	76,4	2.0602	32,4
.531	.55631	114,4	. 14432	55,6	.48615	76,4	.0570	32,3
.532	•55745	114,5	.14488	55,7	.48591	76,3	.0538	32,2
•533 •534	.55860 .55974	114,5 114,6	.14544	55,9 56,0	.48767 .48843	76,2 76,1	.0506 .0474	32,0 31,9
					1			
0.535 .536	0.56089 .56204	114,7 114,7	1.14656	56,1 56,2	0.48919 .48995	76,1 76,0	2.0442 .0410	31,8 31,7
•537	.56318	114,8	.14768	56,3	.4907I	75,9	.0378	31,5
.538	.56433	114,8	. 14825	56,4	.49147	75,8	.0347	31,4
•539	.56548	114,9	. 14881	56,5	.49223	75,8	.0316	31,3
0.540	0.56663	114,9	1.14938	56,7	0.49299	75,7	2.0284	31,1
.541	.56778	115,0	.14994	56,8	49374	75,6	.0253	31,0
.542 .543	.56893	115,1	.15051	56,9 57,0	49450	75,5 75,5	.0222	30,9 30,8
•543	.57123	115,2	.15165	57,I	.49601	75,4	.0161	30,6
0.545	0.57238	115,2	1.15223	57,2	0.49676	75,3	2.0130	30,5
.546	-57354	115,3	.15280	57,4	.49752	75,2	.0100	30,4
547	.57469	115,3	15337	57,5	.49827	75,2	.0070	30,3
.548 •549	.57584 .57700	115,4 115,5	.15395 .15452	57,6 57,7	.49902 .49977	75,1 75,0	.0039	30, <i>2</i> 30,0
0.550	0.57815	115,5	1.15510	57,8	0.50052	74,9	1.9979	29,9
							<del>,</del>	
u u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	singdu	ω F <sub>0</sub> ′	ese gd u	ω Fo'

	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′		ω F <sub>0</sub> ′	coth u	
1-				COSH U	.w <b>r</b> 0	tanh u	ω Fο΄	coth u	ω F <sub>0</sub> ′
	.550 .551	0.57815	115,5 115,6	1.15510	57,8	0.50052	74,9	1.9979	29,9
	.552	.57931 .58046	115,6	.15568 .15626	57,9 58,0	.50127 .50202	74,9 74,8	.9949 .9920	29,8 29,7
	553	.58162	115,7	.15684	58,2	.50277	74,7	.9890	29,6
	• 554	. 58278	115,7	.15742	58,3	.50351	74,6	.9860	29,4
0	· 555	0.58393	115,8	1.15801	58,4	0.50426	74,6	1.9831	29,3
	.556	.58509	115,9	.15859	58,5	.50500	74,5	.9802	29,2
	.557	.58625 .58741	115,9	.15918	58,6	.50575	74,4	9773	<b>2</b> 9,1
	•558 •559	.58857	116,0 116,0	.15976 .16035	58,7 58,9	.50649	74,3 74,3	•9744 •9715	29,0 28,9
II .	.560	0.58973	116,1	1.16094	59,0				
	.561	.59089	116,1	.16153	59,0 59,1	0.50798 50872	74,2 74,1	1.9686 .9657	28,8 28,6
	.562	59205	116,2	.16212	59,2	50946	74,0	.9629	28,5
11	. 563	.59322	116,3	. 16272	59,3	.51020	74,0	.9600	28,4
	.564	. 59438	116,3	. 16331	59,4	.51094	73,9	.9572	28,3
	. 565	0.59554	116,4	1.16390	59,6	0.51168	73,8	1.9544	28,2
	.566 .567	.59671 .59787	116,5 116,5	.16450 .16510	59,7 59,8	.51242	73,7	.9515	28,1
	.568	59904	116,6	.16570	59,9 59,9	.51315	73,7 73,6	.9487 .9459	28,0 27,9
	.569	60020	116,6	. 16630	60,0	.51462	73,5	.9439	27,8
0	.570	0.60137	116,7	1.16690	60,1	0.51536	73.4	1.9404	27,7
	.571	.60254	116,7	.16750	60,3	.51609	73,4	.9376	27,5
	.572	.60371	116,8	.16810	60,4	.51683	73,3	.9349	27,4
	.573	.60487 .60604	116,9 116,9	. 16871 . 16931	60,5 60,6	.51756	73,2	.9321	27,3
	•574		-		-	.51829	73,1	.9294	27,2
0.	• 575	0.60721 .60838	117,0	1.16992	60,7 60,8	0.51902	73,1	1.9267	27,1
	.576 ·577	.60955	117,1 117,1	.17053 .17113	61,0	.51975 .52048	73,0	.9240 .9213	27,0 26,9
	.578	.61073	117,2	.17174	61,1	.52121	72,9 72,8	.9213	26,8
	•579	.61190	117,2	.17236	61,2		72,8	.9159	26,7
0.	. 580	0.61307	117,3	1.17297	61,3	0.52267	72,7	1.9133	26,6
	.581	.61424	117,4	.17358	61,4	•52339	72,6	.9106	26,5
	. 582 . 583	.61542 .61659	117,4	.17420	61,5 61,7	.52412	72,5	.9080	26,4 26,3
	.584	.61777	117,5	.17543	61,8	.52484 .52557	72,5 72,4	.9053 .9027	20,3
0.	. 585	o.61894	117,6	1.17605	61,9	0.52620	72,3	1.9001	26,1
	. 586	.62012	117,7	.17667	62,0	.52701	72,2	.8975	26,0
1	.587	,62130	117,7	.17729	62,1	.52773	72,2	.8949	25,9
1	. 588 . 589	.62247 .62365	117,8	.17791 .17853	62,2	.52846	72,1	.8923	25,8
II.			117,9	Srd Csi	62,4	.52918	72,0	.8897	25,7
	.590 .591	0.62483	117,9	1.17916 .17978	62,5 62,6	0.52990	71,9	1.8872	25,6
	.592	.62719	118,0	.18041	62,7	.53061	71,8 71,8	.8846 .8821	25,5 25,4
	593	.62837	118,1	18104	62,8	.53133 .53205	71,3	.8795	25,4 25,3
	594	.62955	118,2		63,0	.53277	71,6	.8770	25,2
	595	0.63073	118,2	1.18230	63,1	0.53348	71,5	1.8745	25,1
	596	.63192	118,3	.18293	03,2	.53420	71,5	.8720	25,0
	· 597 · 598	.63310 .63428	118,4	.18356	63,3	.53491	71,4	.8695	24,9
	.590	.63547	118,5	.18483	63,4 6 <b>3,5</b>	.53562 .53634	71,3 71,2	.8670 .8645	24,9 24,8
0.	.600	0.63665	118,5	1.18547	63,7	0.53 <i>7</i> 05	71,2	1.8620	24,7
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′
<u> </u>		<u> </u>	<u> </u>						

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> '	coth u	ω F₀′
0.600	0.63665	118,5	1.18547	63,7	0.53705	71,2	1.8620	24,7
.601	.63784	118,6	.18610	63,8	•53776	71,1	.8596	24,6
.602	.63903	118,7	.18674	63,9	.53847	71,0	.8571	24,5
.603 .604	.64021 .64140	118,7	.18738	64,0 64,1	.53918	70,9 70,9	.8547 .8522	24,2 24,3
0.605	0.64259	118,9	1.18866	64,3	0.54060	70,8	1.8498	
.606	.64378	118,9	.18931	64,4	.54131	70,7	.8474	24,2 24,1
.607	.64497	119,0	.18995	64,5	.54201	70,6	8450	24,0
.608	.64616	119,1	.19060	64,6	.54272	70,5	.8426	24,0
.609	.64735	119,1	.19124	64,7	•54342	70,5	.8402	23,9
0.610	0.64854	119,2	1.19189	64,9	0.54413	70,4	1.8378	23,8
.611	.64973	119,3	.19254	65,0	.54483	70,3	.8354	23,7
.612 .613	65093	119,3	.19319	65,1	• 54553	70,2	.8331	23,6
.613	.65212 .65331	119,4	.19384	65,2	.54624 .54694	70,2	. 8307	23,5
-		119,4	.19449	65,3		70,1	.8284	23,4
0.615	0.65451	119,5	1.19515	65,5	0.54764	70,0	1.8260	23,3
.616	.65570	119,6	.19580	65,6	.54834	69,9	.8237	23,3
.617 .618	.65690 .65810	119,6	19646	65,7 65,8	54904	69,9	.8214	23,2
.619	.65929	119,7	. 1971 <i>2</i> . 19778	65,9	· 54973 · 55043	69,8 69,7	.8191 .8168	23,1 23,0
0.620	0.66049	110.8	1.19844	66,0	}		1.8145	
.621	.66169	119,9	.19044	66,2	0.55113	69,6	.8122	22,5
.622	.66289	120,0	19976	66,3	.55182	69,5 69,5	.8099	22,8
.623	.66409	120,0	.20042	66,4	.55321	69,4	.8076	22,7
.624	.66529	120,1	.20109	66,5	.55391	69,3	.8054	22,6
0.625	0.66649	120,2	1.20175	66,6	0.55460	69,2	1.8031	22,
.626	.66769	120,2	.20242	66,8	.55529	69,2	.8009	22,4
.627	.66890	120,3	.20300	66,9	.55598	69,1	.7986	22,4
.628	.67010	120,4	20375	67,0	.55667	69,0	.7964	22,3
5	67130	120,4	.20443	67,1	55736	68,9	.7942	22,2
0.630	0.67251	120,5	1.20510	67,3	0.55805	68,9	1.7919	22,1
.631	.67371	120,6	.20577	67,4	.55874	68,8	7897	22,0
.632 .633	.67492 .67613	120,6	.20645	67,5 67,6	.55943 .56011	68,7 68,6	7875	22,0
.634	.67734	120,8	20780	67,7	.56080	68,6	.7853 .7832	21,9 21,8
0.635	0.67854	120,8	1.20848	67,9	0.56149	68,5	1.7810	21,7
.636	67975	120,9	.20916	68 <b>,o</b>	.56217	68,4	.7788	21,6
.637	.68096	121,0	.20984	68,1	.56285	68,3	.7767	21,6
.638	.68217	121,1	.21052	68,2	.56354	68,2	· <i>77</i> 45	21,5
.639	.68338	121,1	.21120	68,3	.56422	68,2	•7724	21,4
0.640 .641	0.68459 .68581	121,2	1.21189	68,5 68,6	0.56490	68,1	1.7702	21,3
.642	.68702	121,3	.21257	68,7	.56558 .56526	68,0	.7681 .7660	2I,3 2I,2
.643	.68823	121,3	.21325	68,8	.56694	67,9 67,9	.7639	21,2 21,1
.644	.68945	121,5	.21463	68,9	.56762	67,8	.7618	21,0
0.645	0.69066	121,5	1.21532	69,1	0.56829	67,7	1.7597	21,0
.646	.69188	121,6	.21602	69,2	. 56897	67,6	.7576	20,9
.647	.69309	121,7	.21671	69,3	.56965	67,6	·7555	20,8
.648	.69431	121,7	.21740	69,4	.57032	67,5	·7534	20,7
.649	.69553	121,8	.21810	69,6	.57100	67,4	.7513	20,7
0.650	0.69675	121,9	1.21879	69,7	0.57167	67,3	1.7493	20,6

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> /	coth u	- F₀′
0.650	0.69675	121,9	1.21879	69,7	0.57167	67,3	1.7493	20,6
.651	.69797	121,9	.21949	69,8	57234	67,2	.7472	<sup>#</sup> 20,5
.652	69919	122,0	.22019	69,9	.57301	67,2	.7452	20,5
653	70041	122,1	.22089	70,0	57369	67,1	.7431	20,4
.654	.70163	122,2	.22159	70,2	.57436	67,0	.7411	20,3
0.655	0.70285	122,2	1.22229	70,3	0.57503	66,9	1.7391	20,2
.656	.70407	122,3	.22300	70,4	.57570	66,9	.7370	20,2
.657	.70530	122,4	.22370	70,5	.57636	66,8	.7350	20,1
.658	.70652	122,4	.22441	70,7	·57703	66,7	.7330	20,0
659	70775	122,5	.22511	70,8	·57770	66,6	.7310	20,0
0.660	0.70897	122,6	1.22582	70,9	0.57836	66,5	1.7290	19,9
.661	.71020	122,7	.22653	71,0	-57903	66,5	.7270	19,8
.662	.71142	122,7	.22724	71,1	. 57969	66,4	.7251	19,8
.663	.71265	122,8	. 22795	71,3	.58036	66,3	.7231	19,7
.664	.71388	122,9	.22867	71,4	.58102	66,2	.7211	19,6
0.665	0.71511	122,9	1.22938	71,5	0.58168	66,2	1.7192	19,6
.666	.71634	123,0	.23010	71,6	.58234	66,1	.7172	19,5
.667	·71757	123,1	.23081	71,8	.58300	66,0	·7153	19,4
.668	.71880	123,2	.23153	71,9	.58366	65,9	·7 <sup>1</sup> 33	19,4
.669	.72003	123,2	.23225	72,0	.58432	65,9	.7114	19,3
0.670	0.72126	123,3	1.23297	72,1	0.58498	65,8	1.7095	19,2
.671	.72250	123,4	.23369	72,2	.58564	65,7	.7075	19,2
.672	.72373	123,4	~.23442	72,4	.58629	65,6	.7056	19,1
.673	.72497	123,5	.23514	72,5	. 58695	65,5	.7037	19,0
674	.72620	123,6	.23587	72,6	.58760	65,5	.7018	19,0
0.675	0.72744	123,7	1.23659	72,7	0.58826	65,4	1.6999	18,9
.676	.72868	123,7	.23732	72,9	.58891	65,3	.6980	18,8
.677	.72991	123,8	.23805	73,0	.58957	65,2	.6962	18,8
.678	.73115	123,9	.23878	73,1	.59022	65,2	.6943	# I8,7
.679	.73239	124,0	.23951	73,2	59087	65,1	.6924	18,6
0.680	0.73363	124,0	1.24025	73,4	0.59152	65,0	1.6906	18,6
.681	.73487	124,1	.24098	73,5	.59217	64,9	.6887	18,5
.682	.73611	124,2	.24172	73,6	.59282	64,9	.6869	18,5
.683	•73735	124,2	.24245	73,7	•59347	64,8	.6850	18,4
.684	.73860	124,3	.24319	73,9	.59411	64,7	.6832	18,3
0.685	0.73984	124,4	1.24393	74,0	0.59476	64,6	1.6813	18,3
.686	.74109	124,5	.24467	74,1	.59541	64,5	.6795	18,2
.687	.74233	124,5	.24541	74,2	.59605	64,5	6777	18,1
.688	74358	124,6	.24616	74,4	.59670	64,4	.6759	18,1
.689	.74482	124,7	.24690	74,5	•59734	64,3	.6741	18,0
0.690	0.74607	124,8	1.24765	74,6	0.59798	64,2	1.6723	18,0
.691	.74732	124,8	.24839	74,7	.59862	64,2	.6705	17,9
.692	.74857	124,9	.24914	74,9	59927	64,1	.6687	17,8
.693	.74982	125,0	.24989	75,0	.59991	64,0	.6669	17,8
.694	.75107	125,1	.25064	75,1	.60055	63,9	.6652	17,7
0.695	0.75232	125,1	1.25139	75,2	0.60118	63,9	1.6634	17,7
.696	-75357	125,2	.25214	75,4	.60182	63,8	.6616	17,6
.697	.75482	125,3	.25290	75,5	.60246	63,7	.6599	17,6
.698 .699	.75607	125,4	.25365 .25441	75,6	.60310 .60373	63,6 63,6	.6581 .6564	17,5
وون.	•75733	125,4	•~3441	75,7			1 1	17,4
0.700	0.75858	125,5	1.25517	75,9	0.60437	63,5	1.6546	17,4
u,	tan gd u	ω <b>F</b> 0′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

0.700	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
. 701	0.700	0.75858	125,5	1.25517	75,9	0.60437	63,5	1.6546	17,4
702    .76110    125,7    .25669    .7611    .60564    .63,3    .6512    .7024    .76361    125,8    .25821    .7644    .66690    .63,2    .6447    .76361    125,8    .25821    .7644    .66690    .63,2    .6447    .76361    125,8    .25821    .7644    .66690    .63,2    .6447    .7676    .76613    126,0    .25974    .76,0    .60816    .63,0    .6443    .6077    .76730    .126,1    .26051    .76,7    .60870    .62,0    .6426    .6092    .6490    .6426    .709    .76853    126,1    .26128    .76,9    .60942    .62,9    .6490    .6490    .7090    .76991    126,2    .26205    .77,0    .61005    .62,8    .6392    .6392    .6392    .7090    .76991    126,2    .26205    .77,0    .61005    .62,8    .6392    .6392    .711    .77244    126,4    .26359    .77,2    .61130    .62,6    .6358    .711    .777370    126,4    .26359    .77,2    .61130    .62,6    .6385    .6325    .714    .77623    126,6    .26591    .77,5    .61255    .62,5    .6325    .6325    .714    .77623    126,6    .26591    .77,6    .61318    .62,4    .6308    .61318    .62,4    .6308    .715    .78361    .2660    .77,7    .61318    .62,4    .6308    .715    .78361    .2660    .77,7    .61318    .62,2    .6275    .6275    .6275    .6255    .6325    .6325    .714    .78511    .26,9    .26953    .78,1    .61657    .62,1    .6242    .6275    .717    .78033    126,9    .26825    .78,0    .61505    .62,2    .6225    .6255    .625    .6255									17,3
703		.76110				.60564		.6512	17,3
0.705	.703	.76235	125,7	.25745			63,2	.6494	17,2
1.706	.704	.76361	125;8	.25821	76,4	.60690	63,2	.6477	17,1
-707							63,1	1.6460	17,1
.708									17,0
1.709   .76991   126,2   .26205   77,0   .61005   62,8   .6392									17,0
0.710         0.77117         126,3         1.26282         77,1         0.61068         62,7         1.6375           .711         .77244         126,4         .26359         77,2         .61130         62,6         .6338           .712         .77370         126,4         .26436         77,4         .61193         62,6         .6342           .713         .77497         126,5         .26514         77,5         .61255         62,5         .6325           .714         .77023         126,7         .26747         77,0         .61318         62,4         .6308           0.715         0.77750         126,7         .26747         77,9         .61443         62,2         .6275           .716         .77896         126,7         .26747         77,9         .61443         62,2         .6259           .717         .7803         126,8         .26825         78,0         .61505         62,2         .6259           .717         .78893         126,9         .26981         78,3         .61629         62,0         .6226           .721         .78511         127,1         .27138         78,5         .61575         61,1         .6242         .722 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>16,9</td>									16,9
. 711	709	.70991	120,2	.20205	77,0	.61005	62,8	.0392	16,9
.712							62,7	1.6375	16,8
.713				.26359				.6358	16,8
126,6								.6342	16,7
0.715         0.77750         126,7         1.26669         77,7         0.61380         62,3         1.6292           .716         .77876         126,7         .26747         77,9         .61443         62,2         .6275           .717         .78003         126,8         .26825         78,0         .61505         62,2         .6259           .718         .78130         126,9         .26981         78,3         .61567         62,1         .6242           .719         .78257         127,0         .26981         78,3         .61690         61,9         1.6210           .721         .78511         127,1         1.27059         78,4         0.61691         61,9         1.6210           .721         .78511         127,1         .27138         78,5         .61815         61,8         .6177           .722         .7858         127,2         .27216         78,6         .61815         61,8         .6177           .723         .78766         127,3         .27295         78,8         .61876         61,7         .6161           .724         .78893         127,4         .27532         79,0         .62000         61,6         1.6129      <									16,7
7.76	.714	.77023	120,0	.20591	77,0	.01318	02,4	.0308	16,6
1717   17803   126,8   26825   78,0   61505   62,2   6242		0.77750				0.61380	62,3		16,5
. 718		.77870			77,9		62,2	0275	16,5
0.719		78130			70,U			.0259	16,4
0.720         0.78384         127,1         1.27059         78,4         0.61691         61,9         1.6210           .721         .78511         127,1         .27138         78,5         .61753         61,9         .6194           .722         .7838         127,2         .27216         78,6         .61815         61,8         .6177           .723         .78766         127,3         .27295         78,8         .61876         61,7         .6161           .724         .78893         127,4         .27374         78,9         .61938         61,6         .6145           0.725         0.79020         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27610         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050					70,1				16,4
.721         .78511         127,1         .27138         78,5         .61753         61,9         .6194           .722         .78538         127,2         .27216         78,6         .61815         61,8         .6177           .723         .78766         127,3         .27295         78,8         .61876         61,7         .6161           .724         .78893         127,4         .27374         78,9         .61938         61,6         .6161           .724         .7893         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         12,8         1.27849         79,7         0.62307         61,2         1.6050	•/19		127,0	.20901		.01029	02,0	.0220	16,3
.722         .78538         127,2         .27216         78,6         .61815         61,8         .6177           .723         .78766         127,3         .27295         78,8         .61876         61,7         .6161           .724         .78893         127,4         .27374         78,9         .61938         61,6         .6145           0.725         0.79020         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034					78,4				16,3
.723         .78766         127,3         .27295         78,8         .61876         61,7         .6161           .724         .78893         127,4         .27374         78,9         .61938         61,6         .6145           0.725         0.79020         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,8         .27770         79,5         .62245         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79986         127,9         .27929         79,8         .62308         61,1         .6034           .732         .79914         128,0         .28099         79,9         .62429         61,0         .6018					78,5	.61753			16,2
.724         .78893         127,4         .27374         78,9         .61938         61,6         .6145           0.725         0.79020         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28099         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62551         60,9         .5987					78,6	.61815			16,2
0.725         0.79020         127,5         1.27453         19,0         0.62000         61,6         1.6129           .726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .70786         127,9         .27029         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28009         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972									. 16,1
.726         .79148         127,5         .27532         79,1         .62061         61,5         .6113           .727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28090         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6018           .733         .80427         128,2         .28169         80,2         .62551         60,9         .5987           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956	.724	.78893	127,4	.27374	78,9	.61938	61,6	.6145	16,1
.727         .79275         127,6         .27611         79,3         .62123         61,4         .6097           .728         .79493         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28099         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6033           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956									16,0
.728         .79403         127,7         .27690         79,4         .62184         61,3         .6081           .729         .79531         127,8         .27770         79,5         .62245         61,3         .6065           0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28009         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5925									16,0
									15,9
0.730         0.79659         127,8         1.27849         79,7         0.62307         61,2         1.6050           .731         .79786         127,9         .27929         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28009         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28591         80,7         .62794         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910	1 ' 1							1	15,9
.731         .79786         127,9         .27029         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28099         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28491         80,7         .62704         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         .28733         81,1         .62975         60,3         .5879 <tr< td=""><td>.729</td><td>79531</td><td>127,8</td><td>.27770</td><td>79,5</td><td>.02245</td><td>61,3</td><td>.0005</td><td>15,8</td></tr<>	.729	79531	127,8	.27770	79,5	.02245	61,3	.0005	15,8
.731         .79786         127,9         .27029         79,8         .62368         61,1         .6034           .732         .79914         128,0         .28099         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28491         80,7         .62704         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         .28733         81,1         .62975         60,3         .5879 <tr< td=""><td>0.730</td><td><b>0.7</b>9659</td><td>127,8</td><td>1.27849</td><td>79,7</td><td>0.62307</td><td>61,2</td><td>1.6050</td><td>15,8</td></tr<>	0.730	<b>0.7</b> 9659	127,8	1.27849	79,7	0.62307	61,2	1.6050	15,8
.732         .79914         128,0         .28009         79,9         .62429         61,0         .6018           .733         .80042         128,1         .28089         80,0         .62490         61,0         .6003           .734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5925           .738         .80684         128,5         .28491         80,7         .62794         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         .28652         80,9         0.62915         60,4         1.5895           .741         .81090         128,8         .28815         81,2         .63035         60,3         .5879      <	.731	.79786		.27929	79,8	.62368		.6034	15,7
.734         .80171         128,2         .28169         80,2         .62551         60,9         .5987           0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28491         80,7         .62704         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         .28733         81,1         .62975         60,3         .5879           .741         .81070         128,7         .28835         81,2         .63035         60,3         .5864           .743         .81327         128,9         .28896         81,3         .63035         60,2         .5849           .744         .81456         129,0         .28977         81,5         .63156         60,1         .5834 <tr< td=""><td>.732</td><td></td><td></td><td></td><td></td><td>.62429</td><td></td><td></td><td>15,7</td></tr<>	.732					.62429			15,7
0.735         0.80299         128,2         1.28249         80,3         0.62611         60,8         1.5972           .736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28491         80,7         .62794         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         .28733         81,1         .62975         60,3         .5879           .741         .81070         128,7         .28733         81,1         .62975         60,3         .5879           .742         .81199         128,8         .28815         81,2         .63035         60,3         .5849           .743         .81327         128,9         .28896         81,3         .63095         60,2         .5849           .744         .81456         129,1         1.29059         81,6         0.63216         60,0         1.5819								.6003	15,6
.736         .80427         128,3         .28330         80,4         .62672         60,7         .5956           .737         .80555         128,4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128,5         .28491         80,7         .62794         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         1.28652         80,9         0.62915         60,4         1.5895           .741         .81070         128,8         .28733         81,1         .62975         60,3         .5879           .742         .81199         128,8         .28815         81,2         .63035         60,3         .5864           .743         .81327         128,9         .28896         81,3         .63035         60,2         .5849           .744         .81456         129,0         .28977         81,5         .63156         60,1         .5834           0.745         0.81585         129,1         1.29059         81,6         0.63216         60,0         .5804      <	•734	.80171	128,2	.28109	80,2	.62551	60,9	.5987	15,6
.737         .80555         128.4         .28410         80,6         .62733         60,6         .5941           .738         .80684         128.5         .28491         80,7         .62794         60,6         .5925           .739         .80812         128,6         .28572         80,8         .62854         60,5         .5910           0.740         0.80941         128,7         1.28652         80,9         0.62915         60,4         1.5895           .741         .81070         128,7         .28733         81,1         .62075         60,3         .5879           .742         .81199         128,8         .28815         81,2         .63035         60,3         .5864           .743         .81327         128,9         .28896         81,3         .63035         60,2         .5849           .744         .81456         129,0         .28977         81,5         .63156         60,1         .5834           0.745         0.81585         129,1         1.29059         81,6         0.63216         60,0         1.5819           .746         .81714         129,1         .29140         81,7         .63336         59,9         .5894					80,3				15,5
.738     .80684     128.5     .28491     80,7     .62794     60,6     .5925       .739     .80812     128,6     .28572     80,8     .62854     60,5     .5910       0.740     0.80941     128,7     1.28652     80,9     0.62915     60,4     1.5895       .741     .81070     128,7     .28733     81,1     .62975     60,3     .5879       .742     .81199     128,8     .28815     81,2     .63035     60,3     .5864       .743     .81327     128,9     .28896     81,3     .63095     60,2     .5849       .744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789			128,3		80,4				15,5
.739     .80812     128,6     .28572     80,8     .62854     60,5     .5910       0.740     0.80941     128,7     1.28652     80,9     0.62915     60,4     1.5895       .741     .81070     128,7     .28733     81,1     .62975     60,3     .5879       .742     .81199     128,8     .28815     81,2     .63035     60,3     .5864       .743     .81327     128,9     .28896     81,3     .63095     60,2     .5849       .744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789									15,4
0.740         0.80941         128,7         1.28652         80,9         0.62915         60,4         1.5895           .741         .81070         128,7         .28733         81,1         .62975         60,3         .5879           .742         .81199         128,8         .28815         81,2         .63035         60,3         .5864           .743         .81327         128,9         .28896         81,3         .63095         60,2         .5849           .744         .81456         129,0         .28977         81,5         .63156         60,1         .5834           0.745         0.81585         129,1         1.29059         81,6         0.63216         60,0         1.5819           .746         .81714         129,1         .29140         81,7         .63276         60,0         .5804           .747         .81844         129,2         .29222         81,8         .63336         59,9         .5789							00,0		15,4
.741     .81070     128,7     .28733     81,1     .62975     60,3     .5879       .742     .81199     128,8     .28815     81,2     .63035     60,3     .5864       .743     .81327     128,9     .28896     81,3     .63095     60,2     .5849       .744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789	.739	.00012	120,0		00,0			.5910	15,3
.742     .81199     128,8     .28815     81,2     .63035     60,3     .5864       .743     .81327     128,9     .28896     81,3     .63095     60,2     .5849       .744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789				1.28652			60,4		15,3
.743     .81327     128,9     .28896     81,3     .63095     60,2     .5849       .744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789			128,7	.20733		02975			15,2
.744     .81456     129,0     .28977     81,5     .63156     60,1     .5834       0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789		.01199 81447		20015		62005		5804	15,2
0.745     0.81585     129,1     1.29059     81,6     0.63216     60,0     1.5819       .746     .81714     129,1     .29140     81,7     .63276     60,0     .5804       .747     .81844     129,2     .29222     81,8     .63336     59,9     .5789					81.5		60.7		15,1 15,1
.746 .81714 129,1 .29140 81,7 .63276 60,0 .5804 .747 .81844 129,2 .29222 81,8 .63336 59,9 .5789	1 1			garaneri seke			S (1)	100	
747 81844 129,2 29222 81,8 63336 59,9 5789					81,6 81.7				15,0
					81,/ 81 R				15,0
				_		6330F			I4,9 I4,9
.749 .82102 129,4 .29386 82,1 .63455 59,7 .5759						.63455			14,8
0.750 0.82232 129,5 1.29468 82.2 0.63515 59,7 1.5744	0.750	0.82232	129,5	1.29468	82,2				14,8
	u	tan gd u	ω F <sub>0</sub> '	sec gd u	ω F <sub>0</sub> ′		ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

	u ·	sinh u	ω F <sub>0</sub> ′	cosh u	ω <b>F</b> <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
	0.750	0.82232	129,5	1.29468	82,2	0.63515	59.7	1.5744	14,8
	.751	.82361	129,6	.29551	82,4	.63575	59,6	.5730	14,7
	752	.82491	129,6	.29633	82,5	63634	59,5	.5715	14,7
I	·753	.82620	129,7	.29716	82,6	63694	59,4	. 5700 . 5686	14,6
	•754	82750	129,8	.29798	82,8	.63753	59,4		14,6
I	0.755	0.82880 .83010	129,9	1.29881	82,9 83,0	0.63812 .63871	59,3	1.5671 .5656	14,6
Ш	.756	.83140	130,0		83,1	.63931	59,2	.5642	14,5
1	757	.83270	130,0 130,1	.30047	83,3	63990	59,1 59,1	.5628	14,5
	.758 .759	.83400	130,1	.30130	83,4	64049	59,0	.5613	14,4 14,4
	0.760	0.83530	130,3	1.30297	83,5	0.64108	58,9	1.5599	14,3
Ш	.761	.83661	130,4	.30381	83,7	.64167	58,8	.5584	14,3
	.762	.83791	130,5	.30464	83,8	.64225	58,8	5570	14,2
	.763	.83922	130,5	30548	83,9	.64284	58,7	.5556	14,2
	.764	.84052	130,6	.30632	84,1	.64343	58,6	5542	14,2
ı	0.765	0.84183	130,7	1.30716	84,2	0.64401	58,5	1.5528	14,1
ı	.766	.84314	130,8	.30801	84,3	.64460	58,4	.5514	14,1
ı	.767	.84445	130,9	.30885	84,4	.64518	58,4	.5500	14,0
	.768	.84576	131,0	.30970	84,6	.64576	58,3	.5486	14,0
ı	.769	.84707	131,1	.31054	84,7	.64635	58,2	.5472	13,9
H	0.770	0.84838	131,1	1.31139	84,8	0.64693	58,1	1.5458	13,9
1	.771	84969	131,2	.31224	85,0	.64751	58,1	• 5444	13,9
	.772	.85100	131,3	.31309	85,1	.64809	58,0	. 5430	13,8
H	•773	.85231	131,4	.31394	85,2	.64867	57,9	.5416	13,8
	•774	.85363	131,5	•31479	85,4	.64925	57,8	.5402	13,7
	0.775	0.85494	131,6	1.31565	85,5	0.64983	57,8	1.5389	13,7
	.776	.85626	131,7	.31650	85,6	.65040	57,7	•5375	13,6
	•777	.85758	131,7	.31736	85,8	.65098	57,6	.5361	13,6
П	.778	85889	131,8	.31822	85,9	.65156	57,5	. 5348	13,6
۱	·779	.86021	131,9	.31908	86,0	.65213	57,5	•5334	13,5
	0.780	0.86153	132,0	1.31994	. 86,2	0.65271	57,4	1.5321	13,5
ı	.781	.86285	132,1	. 32080	86,3	.65328	57,3	·5307	13,4
ı	782	.86417	132,2	.32166	86,4	.65385	57,2	. 5294	13,4
ı	783	.86550	132,3	.32253	86,5	.65443	57,2	.5281	13,3
ı	.784	.86682	132,3	.32340	86,7	.65500	57,1	.5267	13,3
ı	0.785	0.86814	132,4	1.32426	86,8	0.65557	57,0	1.5254	13,3
	.786	.86947	132,5	.32513	86,9	.65614	56,9	.5241	13,2
	.787	.87079	132,6	. 32600	87,1	.65671	56,9	.5228	13,2
ı	.788	.87212	132,7	. 32687	87,2	.65727	56,8	.5214	13,1
	.789	.87345	132,8	.32775	87,3	.65784	56,7	.5201	13,1
	0.790	0.87478	132,9	1.32862	87,5	0.65841	56,6	1.5188	13,1
	•791	.87610	132,9	.32950	87,6	,65898	56,6	.5175	13,0
	.792	.87743	133,0	.33037	87,7	.65954	56,5	.5162	13,0
	•793	.87877	133,1	33125	87,9	.66011	56,4	.5149	12,9
	• <b>7</b> 94	.88010	133,2	.33213	88,0	.66067	56,4	.5136	12,9
	0.795	0.88143	133,3	1.33301	88,1	0.66123	56,3	1.5123	12,0
	<b>.</b> 796	.88276	133,4	.33389	88,3	.66179	56,2	.5110	12,8
	•797	.88410	133,5	•33478	88,4	.66236	56,1	.5098	12,8
ı	.798 .799	.88543 .88677	133,6 133,7	.33566	88,5 88,7	.66292	56,1 56,0	.5085	12,8 12,7
1	0.800	0.88811	133,7	1.33743	88,8	0.66404	55,9	1.5059	12,7
	u	tan gd u	ω Fo'	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F₀′
L		J			]		ka ais		

ſ			and the second					Rainey in a second of the	
١	<u>u</u>	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> '
ı	0.800	0.88811	133,7	1.33743	88,8	0.66404	55,9	1.5059	12,7
1	.801	.88944	133,8	33832	88,9	.66460	55,8	. 5047	12,6
ı	.802	89078	133,9	.33921	89,1	.66515	55,8	.5034	12,6
ı	.803	89212	134,0	.34011	89,2	.66571	55,7	.5022	12,6
ı	.804	.89346	134,1	.34100	89,3	.66627	55,6	.5009	12,5
l	0.805	0.89480	134,2	1.34189	89,5	0.66682	55,5	1.4996	12,5
1	.806	.89615	134,3	34279	89,6	.66738	55,5	.4984	12,5
ı	.807	.89749	134,4	.34368	89,7	.56793	55,4	.4972	12,4
1	.808	.89883	134,5	34458	89,9	66849	55,3	•4959	12,4
l	.809	.90018	134,5	34548	90,0	.66904	55,2	4947	12,3
l	0.810	0.90152	134,6	1.34638	90,2	0.66959	55,2	1.4935	12,3
I	.811	.90287	134,7	.34729	90,3	.67014	55,1	.4922	12,3
ı	.812	.90422	134,8	.34819	90,4	.67069	55,0	.4910	12,2
ı	.813	.90557	134,9	34909	90,6	.67124	54,9	.4898	12,2
I	.814	.90692	135,0	.35000	90,7	.67179	54,9	.4886	12,2
١	0.815	0.90827	135,1	1.35091	90,8	0.67234	54,8	1.4873	12,1
ı	.816	.90962	135,2	.35182	91,0	.67289	54,7	.4861	12,1
	.817	.91097	135,3	.35273	91,1	.67343	54,6	.4849	12,0
ı	.818.	.91232	135,4	.35364	91,2	.67398	54,6	.4837	12,0
ı	.819	.91368	135,5	•35455	91,4	.67453	54,5	.4825	12,0
١	0.820	0.91503	135,5	1.35547	91,5	0.67507	54,4	1.4813	11,9
1	.821	.91639	135,6	.35638	91,6	.67561	54,4	.4801	11,9
ı	.822	91775	135.7	.35730	91,8	.67616	54,3	.4789	11,9
1	.823	.91910	135,8	.35822	91,9	.67670	54,2	4778	11,8
ı	.824	.92046	135,9	.35914	92,0	.67724	54,1	.4766	11,8
ı	0.825	0.92182	136,0	1.36006	92,2	0.67778	54,1	1.4754	11,8
ı	826	.92318	136,1	36098	92,3	67832	54,0	4742	11,7
1	.827	.92454	136,2	36190	92,5	67886	53,9	.4731	11,7
1	.828	.92591	136,3	.36283	92,6	67940	53,8	.4719	11,7
١	.829	.92727	136,4	.36376	92,7	67994	53,8	4707	11,6
	0.830	0.92863	136,5	1.36468	92,9	0.68048	53,7	1,4696	11,6
	.831	.93000	136,6	.36561	93,0	.68101	53,6	.4684	11,6
1	.832	.93137	136,7	36654	93,1	.68155	53,5	.4672	11,5
ı	.833	93273	136,7	.36748	93,3	.68208	53,5	.4661	11,5
I	.834	.93410	136,8	.36841	93,4	.68262	53,4	.4649	11,5
	0.835	0.93547	135,9	1.36934	93,5	0.68315	53,3	1.4638	11,4
1	.836	.93684	137,0	37028	93,7	.68368	53,3	4627	11,4
1	.837	.93821	137,1	37122	93,8	68422	53,2	4615	11,4
ľ	.838	.93958	137,2	.37216	94,0	.68475	53,1	.4604	11,3
ı	.839	.94095	137,3	.37310	94,1	68528	53,0	4593	11,3
I	0.840	0.94233	137,4	1.37404	94,2	0.68581	53,0	1.4581	11,3
ı	.841	94370	137,5	37498	94,4	.68634	52,9	.4570	11,2
	.842	.94508	137,6	.37503	94,5	.68687	52,8	•4559	11,2
ı	.843	.94645	137,7	. 37687	94,6	.68739	52,7	.4548	11,2
ı	.844	.94783	137,8	.37782	94,8	.68792	52,7	4537	11,1
I	0.845	0.94921	137,9	1.37877	94,9	0.68845	52,6	1.4525	11,1
	.846	.95059	138,0	37972	95,1	.68897	52,5	.4514	11,1
	.847	.95197	138,1	. 38067	95,2	.68950	52,5	.4503	11,0
ı	.848	•95335	138,2	.38162	95,3	.69002	52,4	.4492	11,0
ı	•949	•95473	138,3	.38258	95,5	.69055	52,3	.4481	11,0
	0.850	0.95612	138,4	1.38353	95,6	0.69107	52,2	1.4470	10,9
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> '
L							sanda salahil		

U	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	⇔ F₀′
o.850 .851 .852 .853	0.95612 .95750 .95888 .96027	138,4 138,4 138,5 138,6	.38353 .38449 .38545 .38641	95,6 95,7 95,9 96,0	0.69107 .69159 .69211 .69263	52,2 52,2 52,1 52,0	1.4470 .4459 .4449 .4438	10,9 10,9 10,9 10,8 10,8
.854 0.855 .856 .857	.96166 0.96305 .96443 .96582	138,7 138,8 138,9 139,0	.38737 1.38833 .38929 .39026	95,2 96,3 96,4 96,6	.69315 0.69367 .69419 .69471 .69523	52,0 51,9 51,8 51,7	•4427 1.4416 •4405 •4395	10,8 10,8 10,7
.858 .859	.96721 .96861	139,1 139,2	.39122 .39219	96,7 96,9	.69574	51,7 51,6	.4384 .4373	10,7
0.860 .851 .852 .853 .864	0.97000 .97139 .97279 .97418 .97558	139,3 139,4 139,5 139,6 139,7	1.39316 .39413 .39510 .39608 .39705	97,0 97,1 97,3 97,4 97,6	0.69626 .69677 .69729 .69780 .69831	51,5 51,5 51,4 51,3 51,2	1.4362 .4352 .4341 .4331 .4320	10,6 10,6 10,6 10,5 10,5
0.865 .866 .867 .868 .869	0.97698 .97838 .97978 .98118 .98258	139,8 139,9 140,0 140,1 140,2	1.39803 .39901 .39999 .40097 .40195	97,7 97,8 98,0 98,1 98,3	0.69882 .69934 .69985 .70036 .70087	51,2 51,1 51,0 51,0 50,9	1.4310 .4299 .4289 .4278 .4268	10,5 10,4 10,4 10,4 10,4
0.870 .871 .872 .873 .874	0.98398 .98538 .98679 .98819 .98960	140,3 140,4 140,5 140,6 140,7	1.40293 .40392 .40490 .40589 .40688	98,4 98,5 98,7 98,8 99,0	0.70137 .70188 .70239 .70290 .70340	50,8 50,7 50,7 50,6 50,5	1.4258 .4247 .4237 .4227 .4217	10,3 10,3 10,3 10,2 10,2
0.875 .876 .877 .878 .879	0.99101 .99241 .99382 .99523 .99665	140,8 140,9 141,0 141,1 141,2	1.40787 .40886 .40985 .41085 .41184	99,1 99,2 99,4 99,5 99,7	0.70391 .70441 .70491 .70542 .70592	50,5 50,4 50,3 50,2 50,2	1.4206 .4196 .4185 .4176 .4166	I0,2 I0,2 I0,1 I0,1 I0,1
0.880 .881 .882 .883 .884	0.99806 .99947 1.00089 .00230 .00372	141,3 141,4 141,5 141,6 141,7	1.41284 .41384 .41484 .41584 .41684	99,8 99,9 100,1 100,2 100,4	0.70642 .70692 .70742 .70792 .70842	50,1 50,0 50,0 49,9 49,8	1.4156 .4146 .4136 .4126 .4116	10,0 10,0 10,0 10,0 9,9
o.885 .886 .887 .888 .889	1.00514 .00655 .00797 .00939	141,8 141,9 142,0 142,1 142,2	1.41785 .41886 .41986 .42087 .42188	100,5 100,7 100,8 100,9 101,1	0.70892 .70941 .70991 .71040 .71090	49,7 49,7 49,6 49,5 49,5	1.4106 .4096 .4086 .4076 .4067	9,9 9,9 9,8 9,8 9,8
6.890 .891 .892 .893	1.01224 .01365 .01508 .01651 .01794	142,3 142,4 142,5 142,6 142,7	1.42289 .42391 .42492 .42594 .42695	101,2 101,4 101,5 101,7 101,8	0.71139 .71189 .71238 .71287 .71336	49,4 49,3 49,3 49,2 49,1	1.4057 .4047 .4037 .4028 .4018	9,8 9,7 9,7 9,7 9,7
0.895 .896 .897 .898	1.01936 .02079 .02222 .02365 .02508	142,8 1,12,9 143,0 143,1 143,2		101,9 102,1 102,2 102,4 102,5	0.71385 .71434 .71483 .71532 .71581	49,0 49,0 48,9 48,8 48,8	1.4008 •3999 •3989 •3980 •3970	9,6 9,6 9,6 9,5 9,5
0.900	1.02652	143,3	1.43309	102,7	0.71630	48,7	1.3961	9,5
u u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ωF <sub>0</sub> ′	sin gd ú	ω <b>F</b> <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	do-t			
- u	Sinn u	ω r <sub>0</sub>		ω Γο	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.900	1.02652	143	1.43309	103	0.71630	48,7	1.3961	9,5
.901	-02795	143	.43411	103	.71678	48,6	.3951	9,5
.902	.02938	144	.43514	103	.71727	48,6	.3942	9,4
.903	.03082	144	.43617	103	.71776	48,5	.3932	9,4
.904	.03226	144	.43720	103	.71824	48,4	•3923	9,4
0.905	1.03370	144	1.43824	103	0.71872	48,3	1.3914	9,4
.906	.03513	144	.43927	104	.71921	48.3	.3904	9,3
.907	.03657	144	.44031	104	.71969	48,2	.3895	9,3
.908	.03801	144	•44134	104	.72017	48,1	.3886	9,3
.909	.03946	144	.44238	104	.72065	48,1	.3876	9,3
0.910	1.04090	144	1.44342	104	0.72113	48,0	1.3867	9,2
.911	.04234	144	.44446	104	.72161	47,9	.3858	9,2
.912	.04379	145	•44551	104	.72209	47.0	.3849	9,2
.913	.04523	145	•44655	105	.72257	47,8	.3840	9,2
.914	.04658	145	•44760	105	.72305	47,7	.3830	9,1
0.915	1.04813	145	1.44865	105	0.72352	47,7	1.3821	9,1
.916	.04958	145	.44969	105	.72400	47,6	.3812	9,1
.917	.05103	145	.45075	105	.72448	47,5	.3803	9,1
.918	.05248	145	.45180	105	.72495	47,4	•3794	9,0
.919	.05393	145	.45285	105	.72542	47,4	· 3785	9,0
0.920	1.05539	145	1.45390	106	0.72590	47,3	1.3776	9,0
.921	.05684	145	.45496	106	.72637	47,2	.3767	9,0
.922	.05830	146	.45602	106	.72684	47,2	.3758	8,9
.923	.05975	146	.45708	106	.72731	47,1	•3749	8,9
.924	.06121	146	.45814	106	72778	47,0	3740	8,9
0.925	1.06267	146	1.45920	106	0.72825	47,0	1.3731	8,9 8,8 8,8 8,8 8,8
.926	.06413	146	.46026	106	.72872	46,9	.3723	8,8
.927	<b>.0</b> 6559	146	.46133	107	.72919	46,8	.3714	8,8
.928	.06705	146	.46239	107	.72966	46,8	.3705	8,8
.929	.06851	146	.46346	107	.73013	46,7	<b>.3</b> 696	8,8
0.930	1.06998	146	1.46453	107	0.73059	46,6	1.3687	8,7
.931	.07144	147	.46560	107	.73106	46,6	.3679	8.7
.932	.07291	147	.46667	107	•73153	46,5	.3670	8,7
-933	.07438	147	.46775	107	.73199	46,4	.3661	8,7
•934	.07584	147	.46882	108	•73245	46,4	.3653	8,6
0.935	1.07731	147	1.46990	108	0.73292	46,3	1.3644	8,6
.936	.07878	147	47098	108	. 73338	46,2	.3636	8,6
•937	.08025	147	.47205	108	73384	46,1	.3627	8,6
.938	.08173	147	47314	108	.73430	46,1	.3618	8,5
-939	.08320	147	.47422	108	.73476	46,0	.3610	8,5
0.940	1.08468	148	1.47530	.108	0.73522	45,9	1.3601	8,5 8,5 8,5
.941	.08615	148	.47639	109	.73568	45.9	.3593	8,5
.942	.08763	148	.47748	109	.73614	45,8	.3584	8,5
•943	.08911	148	.47857	109	.7366o	45.7	.3576	8,4
•944	.09059	148	47966	109	·73705	45,7	3568	8,4
0.945	1.09207	148	1.48075	109	0.73751	45,6	1.3559	8,4
.946	.09355	148	.48184	100	•73797	45.5	•3551	8,4
.947	.09503	148	.48293	110	73842	45,5	.3542	8,3
.948	.09651	148	.48403	IIO	73888	45,4	•3534	8,3
949	.09800	149	.48513		•73933	45,3	.3526	8,3
0.950	1.09948	149	1.48623	110	0.73978	45,3	1.3517	8,3
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gđ u	ω <b>F</b> <sub>0</sub> ′	csć gd u	ω F <sub>0</sub> ′

		. ;	Natural I	Hyperbo	olic Func	tions.		i
u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
0.950 .951 .952 .953	1.09948 .10097 .10246 .10395 .10544	149 149 149 149 149	1.48623 .48733 .48843 .48953 .49064	111 110 110 110	0.73978 .74024 .74069 .74114 .74159	45,3 45,2 45,1 45,1 45,0	1.3517 .3509 .3501 .3493 .3485	8,3 8,2 8,2 8,2 8,2
0.955 .956 .957 .958 .959	1.10693 .10842 .10991 .11141 .11291	149 149 149 150	1.49174 .49285 .49396 .49507 .49618	111 111 111 111 111	0.74204 .74249 .74294 .74338 .74383	44,9 44,9 44,8 44,7 44,7	1.3476 .3468 .3460 .3452 .3444	8,2 8,1 8,1 8,1 8,1
0.960 .961 .962 .963 .964	1.11440 .11590 .11740 .11890 .12040	150 150 150 150 150	1.49729 .49841 .49953 .50064 .50176	111 112 112 112 112	0.74428 .74472 .74517 .74561 .74606	44,6 44,5 44,5 44,4 44,3	1.3436 .3428 .3420 .3412 .3404	8,1 8,0 8,0 8,0 8,0
0.965 .966 .967 .968 .969	1.12190 .12341 .12491 .12642 .12792	150 150 151 151 151	1.50289 .50401 .50513 .50626 .50739	112 112 112 113 113	0.74650 .74694 .74738 .74782 .74826	44,3 44,2 44,1 44,1 44,0	1.3396 .3388 .3380 .3372 .3364	7.9 7.9 7.9 7.9 7.9
0.970 .971 .972 .973 .974	1.12943 .13094 .13245 .13396 .13547	151 151 151 151 151	1.50851 .50964 .51078 .51191 .51304	113 113 113 113 114	0.74870 .74914 .74958 .75002 .75046	43,9 43,9 43,8 43,7 43,7	1.3356 ·3349 ·3341 ·3333 ·3325	7.8 7.8 7.8 7.8 7.8 7.8
0.975 .976 .977 .978	1.13699 .13850 .14002 .14154 .14305	151 152 152 152 152	1.51418 .51532 .51646 .51760 .51874	114 114 114 114 114	0.75089 .75133 .75176 .75220 .75263	43,6 43,6 43,5 43,4 43,4	1.3317 .3310 .3302 .3294 .3287	7.7 7.7 7.7 7.7 7.7
0.980 .981 .982 .983 .984	1.14457 .14609 .14761 .14914 .15066	152 152 152 152 152 152	1.51988 .52103 .52218 .52332 .52447	144 115 115 115 115	0.75307 .75350 .75393 .75436 .75479	43,3 43,2 43,2 43,1 43,0	1.3279 .3271 .3264 .3256 .3249	7,6 7,6 7,6 7,6 7,6
0.985 .986 .987 .988 .989	1.15219 .15371 .15524 .15677 .15830	153 153 153 153 153	1.52563 .52678 .52793 .52909 .53025	115 115 116 116 116	0.75522 .75565 .75608 .75651 .75694	43,0 42,9 42,8 42,8 42,7	1.3241 -3234 -3226 -3219 -3211	7,5 7,5 7,5 7,5 7,5
0.990 .991 .992 .993	1.15983 .16136 .16289 .16443 .16596	153 153 153 153 154	1.53141 •53257 •53373 •53489 •53606	116 116 116 116 117	0.75736 .75779 .75821 .75864 .75906	42,6 42,6 42,5 42,4 42,4	1.3204 .3196 .3189 .3182	7,4 7,4 7,4 7,4 7,4
0.995 .996 .997 .998	1.16750 .16904 .17058 .17212 .17366	154 154 154 154 154	1.53722 .53839 .53956 .54073 .54191	117 117 117 117 117	0.75949 .75991 .76033 .76075 .76117	42,3 42,3 42,2 42,1 42,1	1.3167 .3159 .3152 .3145 .3138	7,3 7,3 7,3 7,3 7,3 7,3
1.000	1.17520	154	1.54308	118	0.76159	42,0	1.3130	7,2
u ,	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω Fo'	cosh u	ω F <sub>0</sub> ′	tanh u	ω Fo'	coth u	ω F <sub>0</sub> ′
T 000	T TOPOO		T 5420Q	118	0.76159	40.0	T 2720	<del></del>
1.000	1.17520	154	1.54308	118		42,0	1.3130	7,2
100.	17674	154	.54426	- 1	.76201	41,9	.3123	7,2
.002	17829	155	•54543	118	.76243	41,9	.3116	7,2
.003	17984	155	.54661	118	.76285	41,8	.3109	7,2
.004	.18138	155	•54779	118	.76327	41,7	.3102	7,2
1.005	1.18293	155	1.54898	118	0.76369	41,7	1.3094	7,1
.006	. 18448	155	.55016	118	.76410	41,6	3087	7,1
.007	.18603	155	.55134	119	.76452	41,6	.3080	7,1
.008	.18758	155	.55253	119	.76493	41,5	3073	7,1
.009	.18914	155	.55372	119	•76535	41,4	3066	, 7,1 7,1
7 070	7 70060		İ	770				
1.010	1.19069	155	1.55491	119	0.76576	41,4	1.3059	7,
.011	.19225	156	.55610	119	.76618	41,3	.3052	7,0
.012	, 19380	156	.55729	119	.76659	41,2	.3045	7,0
.013	. 19536	156	. 55849	120	.7670 <b>0</b>	41,2	.3038	7,0
.014	. 19692	156	. 55969	120	.7674I	41,1	.3031	7,0
1.015	1.19848	156	1.56088	120	0.76782	41,0	1.3024	7,0
.016	.20004	156	. 56208	120	76823	41,0	.3017	6,9
.017	.20160	156	.56328	120	.76864	40,9	.3010	6,9
810.	.20317	156	56449	120	76905	40,9	.3003	6,5
.019	.20473	157	.56569	120	.76946	40,8	.2996	, 6,9
1.020	1.20630	157	1.56689	121	0.76987	40,7	1.2080	6,9
II.	.20787		.56810	121			.2982	6,0
.021		157			.77027	40,7		6,8
.022	.20944	157	. 56931	121	.77068	40,6	.2976	6,8
.023	.21101	157	.57052	121	.77109	40,5	.2969	0,0
.024	21258	157	.57173	121	.77149	40,5	.2962	6,8
1.025	1.21415	157	1.57295	121	0.77190	40,4	1.2955	6,8
.026	.21572	157	. 57416	122	.77230	40,4	.2948	6,8
.027	.21730	158	. 57538	122	.77270	40,3	.2942	6,7
.028	.21887	158	.57660	122	.77310	40,2	•2935	6,7
.029	.22045	158	.57782	122	.77351	40,2	.2928	6,
1.030	1.22203	158	1.57904	122	0.77391	40,1	1.2021	6,;
.031	.22361	158	.58026	122		40,0	.2915	6,
- 1		158	.58148	122	.77431		.2915	6,
.032	.22519				77471	40,0		6,6
.033	.22677	158	.58271	123	77511	39,9	.2901	
.034	.22836	158	. 58394	123	•77551	39,9	.2895	6,6
1.035	1.22994	159	1.58517	123	0.77591	39,8	1.2888	6,6
.036	.23153	159	.58640	123	.77630	39.7	.2882	6,0
.037	.23311	159	. 58763	123	.77670	39,7	.2875	6,0
.038	.23470	159	.58886	123	.77710	39,6	2868	6,6
.039	.23629	159	.59010	124	-77749	39,6	.2862	6,5
1.040	1.23788	159	1.59134	124	0.77789	39,5	1.2855	6,5 6,5 6,5
.041	.23947	159	.59257	124	.77828	39,4	.2840	6.3
.042	.24107	159	.59381	124	.77858	39,4	.2842	, Š
.043	.24266	160	.59506	124	.77907	39,4	.2836	6,
.043	.24426	160	.59630	124	.77946	39,3	.2829	6,
T C4.	1.24585	160	T FORF	TOF	0.77985	1	1.2823	6,4
1.045			1.59755	125		39,2	.2816	6,2
.046	.24745	160	.59879	125	.78025	39,1		
.047	.24905	, 160	.60004	125	.78064	39,1	.2810	6,
.048	25065	160	.60129	125	.78103	39,0	.2804	6,4
.049	.25225	160	.60254	125	.78142	38,9	.2797	6,,
1.050	1.25386	160	1.60379	125	0.78181	38,9	1.2791	6,4
		J						

	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> '	coth ư	ω F <sub>0</sub> ′
	1.050 .051 .052 .053 .054	1.25386 .25546 .25707 .25867 .26028	161 161 161 161	1.60379 .60505 .60631 .60756 .60882	125 126 126 126 126	0.78181 .78219 .78258 .78297 .78336	38,9 38,8 38,8 38,7 38,6	1.2791 .2785 .2778 .2772 .2766	6,4 6,3 6,3 6,3 6,3
	1.055 .056 .057 .058 .059	1.26189 .26350 .26511 .26673 .26834	161 161 161 161 162	1.61008 .61135 .61261 .61388 .61514	126 126 127 127 127	0.78374 .78413 .78451 .78490 .78528	38,6 38,5 38,4 38,4 38,3	1.2759 .2753 .2747 .2741 .2734	6,3 6,3 6,2 6,2 6,2
	1.060 .061 .062 .063 .064	1.26996' .27157 .27319 .27481 .27643	162 162 162 162 162	1.61641 .61768 .61896 .62023 .62151	127 127 127 127 128	0.78566 .78605 .78643 .78681 .78719	38,3 38,2 38,2 38,1 38,0	1.2728 .2722 .2716 .2710 .2703	6,2 6,2 6,2 6,2 6,1
	1.065 .066 .057 .068 .069	1.27806 .27968 .28130 .28293 .28456	162 162 163 163 163	1.62278 .62406 .62534 .62662 .62791	128 128 128 128 128	0.78757 .78795 .78833 .78871 .78908	38,0 37,9 37,9 37,8 37,7	1.2697 .2691 .2685 .2679 .2673	6,1 6,1 6,1 6,1 6,1
	1.070 .071 .072 .073 .074	1.28519 .28782 .28945 .29108 .29271	163 163 163 163 163	1.62919 .63048 .63177 .63306 .63435	129 129 129 129 129	0.78946 .78984 .79021 .79059 .79096	37,7 37,6 37,6 37,5 37,4	1.2667 .2661 .2655 .2649 .2643	6,0 6,0 6,0 6,0 6,0
	1.075 .076 .077 .078 .079	1.29435 .29598 .29762 .29926 .30090	164 164 164 164 164	1.63565 .63694 .63824 .63954 .64084	129 130 130 130 130	0.79134 .79171 .79208 .79246 .79283	37,4 37,3 37,3 37,2 37,1	1.2637 .2631 .2625 .2619 .2613	6,0 6,0 5,9 5,9 5,9
	1.080 .081 .082 .083 .084	1.30254 .30418 .30583 .30747 .30912	164 164 164 165 165	1.64214 .64344 .64475 .64605 .64736	130 130 131 131 131	0.79320 .79357 .79394 .79431 .79468	37,1 37,0 37,0 36,9 36,8	1.2607 .2601 .2595 .2590 .2584	5,9 5,9 5,8 5,8 5,8
	1.085 .086 .087 .088	1.31077 .31242 .31407 .31572 .31737	165 165 165 165 165 165	1.64867 .64998 .65130 .65261 .65393	131 131 131 132 132	0.79505 .79541 .79578 .79615 .79651	36,8 36,7 36,7 36,6 36,6	1.2578 .2572 .2566 .2560 .2555	5,8 5,8 5,8 5,8 5,8
	1.090 .091 .092 .093 .094	1.31903 .32068 .32234 .32400 .32566	166 166 166 166 166	1.65525 .65657 .65789 .65921 .66053	132 132 132 132 133	0.79688 .79724 .79761 .79797 .79833	36,5 36,4 36,4 36,3 36,3	1.2549 .2543 .2538 .2532 .2526	5.7 5.7 5.7 5.7 5.7 5.7
Special and the state of the second special special special second secon	1.095 .096 .097 .098	1.32732 .32898 .33065 .33231 .33398	166 166 166 167 167	1.66186 .66319 .66452 .66585 .66718	133 133 133 133 133	0.79870 .79906 .79942 .79978 .80014	36,2 36,2 36,1 36,0 36,0	1.2520 .2515 .2509 .2503 .2498	5,7 5,7 5,6 5,6 5,6
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	I.100	1.33565 tan gd u	167 ω F <sub>0</sub> ′	1.66852 sec gd u	134 ω F <sub>0</sub> '	o.80050	35,9 ω F <sub>0</sub> '	I.2492 csc gd u	5,6 ω <b>F</b> <sub>0</sub> ′
		AN TABLES							<b></b>

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ωFo	coth u	ω F <sub>0</sub> ′
	onill U				<del></del>		- Com u	
1.100	1.33565	167 167	1.66852 .66986	134	0.80050 .80086	35,9	1.2492 .2487	5,6 5,6
.101	.33732 .33899	167	.67119	134	.80122	35,9 35,8	.2481	5,6 5,6
.103	.34066	167	.67253	134	.80157	35,7	.2475	5,6
.104	•34233	167	.67387	134	.80193	35,7	.2470	5,5
1.105	1.34401	168	1.67522	134	0.80229	35,6	1.2464	5,5
.106	.34568	168	.67656	135	.80264	35,6	.2459	5,5
.107	•34736	168 168	.67791	135	.80300 .80335	35,5	.2453	5,5
.108	.34904 .35072	168	.67926 .68061	135 135	.80333	35,5 35,4	.2448	5,5 5,5
1.110	1.35240	168	1.68196	135	0.80406	35,3	1.2437	5,5
.111	35408	168	.68331	135	.80442	35,3	.2431	<b>5,</b> 5
.112	-35577	168	.68467	136	.80477	35,2	.2426	5,4
.113	·35745	169	.68502	136	.80512	35,2	.2421	5,4
.114	.35914	169	.68738	136	.80547	35,1	.2415	5,4
1.115 .116	1.36083 .36252	169 169	1.68874 .69010	136 136	0.80582 .80617	35,1 35,0	1,2410 .2404	5,4 5,4
.117	.36421	169	.69147	136	.80652	35,0	.2399	5,4
811.	.36590	169	.69283	137	.80687	34,9	.2394	5,4
.119	.36759	169	.69420	137	.80722	34,8	.2388	5,3
₹.120	1.36929	170	1.69557	137	0.80757	34,8	1.2383	5,3
.31	.37098	170	.69694 .69831	137 137	.80792 .80826	34,7	.2378	5.3
.122	.37268	170 170	.69968	137	.80861	34,7 34,6	.2372	5,3 5,3
.124	37608	170	.701 <b>0</b> 6	138	.80896	34,6	.2362	5,3
1.125	1.37778	170	1.70243	138	0.80930	34,5	1.2356	5,3
.126	•37949	170	.70381	138	80965	34,4	.2351	5,3
.127	.38119	171 171	.70519 .70658	138 138	.80999 .81033	34,4 34,3	.2346	5,2 5,2
.120	.38460	171	.70796	138	.81068	34,3	2335	5,2
1.130	1.38631	171	1.70934	139	0.81102	34,2	1.2330	5,2
.131	.38802	171	.71073	139	.81136	34,2	.2325	5,2
.132	.38973	171	.71212	139	.81170 .81204	34,I	.2320	5,2
.133 .134	.39145 .39316	171 171	.71351 .71490	139 139	.81238	34,1 34,0	.2315	5,2 5,2
1.135	1.39488	172	1.71630	139	0.81272	33,9	1.2304	5,1
.136	39659	172	.71769	140	.81306	33,9	.2299	5,1
.137	.39831	172	.71909	140	.81340	33,8	.2294	5,1
.138	.40003	172 172	.72049 .72189	140 140	.81374 .81408	33,8 33,7	.2289	5,1
.139	.40175				, i			5,1
1.140 .141	1.40347 .40520	172 172	1.72329 .72470	140 141	0.81441 .81475	33,7 33,6	1.2279	5,1 5,1
.141	.40520	173	.72470 .72610	141	.81509	33,6	.22/4	5,1 5,1
.143	.40865	173	.72751	141	.81542	33,5	.2264	5,0
•144	.41038	173	.72892	141	.81576	33,5	.2259	5,0
1.145	1.41211	173	1.73033	141	0.81609 .81642	33,4	1.2254	5,0
.146 .147	.41384 .41557	173 173	.73175 .73316	141 142	.81642	33,3 33,3	.2249 .2244	5,0 5,0
.148	.41731	173	.73458	142	81709	33,2	.2239	5,0
.149	.41904	174	•73599	142	.81742	33,2	.2234	5,0
1.150	1.42078	174	1.73741	142	0.81775	33,1	1.2229	5,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> '	coth u	ω F <sub>0</sub> ′
1.150	1.42078	174	1.73741	142	0.81775	33,1	1.2229	5,0
.151	.42252	174	.73884	142	.81809	33,1	.2224	4,9
.152	.42426	174	.74026	142	.81842	33,0	.2219	4,9
.153	.42600	174	.74168	143	.81875	33,0	.2214	4,9
.154	.42774	174	.74311	143	.81907	32,9	.2209	4,9
1.155	1.42948	174	1.74454	143	0.81940	32,9	1.2204	4,9
.156	.43123	175	.74597	143	.81973	32,8	.2199	4,9
.157	.43297	175	.74740	143	.82006	32,8	.2194	4,9
.158	.43472	175	.74884	143	.82039	32,7	.2189	4,9
.159	.43647	175	.75027	144	.82071	32,6	.2185	4,8
1.160	1.43822	175	.75171	144	0.82104	32,6	1.2180	4,8
.161	.43998	175	.75315	144	.82137	32,5	.2175	4,8
.162	.44173	175	.75459	144	.82169	32,5	.2170	4,8
.163	.44349	176	.75603	144	.82202	32,4	.2165	4,8
.164	.44524	176	.75748	145	.82234	32,4	.2160	4,8
1.165	1.44700	176	1.75892	145	0.82266	32,3	1.2156	4,8
.166	.44876	176	.76037	145	.82299	32,3	.2151	4,8
.167	.45052	176	.76182	145	.82331	32,2	.2146	4,8
.168	.45228	176	.76327	145	.82363	32,2	.2141	4,7
.169	.45405	176	.76472	145	.82395	32,1	.2137	4,7
1.170	1.45581	177	1.76618	146	0.82427	32,1	1.2132	4,7
.171	.45758	177	.76764	146	.82459	32,0	.2127	4,7
.172	.45935	177	.76909	146	.82491	32,0	.2123	4,7
.173	.46112	177	.77056	146	.82523	31,9	.2118	4,7
.174	.46289	177	.77202	146	.82555	31,8	.2113	4,7
1.175 .176 .177 .178 .179	1.46466 .46644 .46821 .46999	177 177 178 178 178	1.77348 .77495 .77641 .77788 .77935	146 147 147 147 147	0.82587 .82619 .82650 .82682 .82714	31,8 31,7 31,7 31,6 31,6	1.2108 .2104 .2099 .2095 .2090	4,7 4,7 4,6 4,6 4,6
1.180	1.47355	178	1.78083	147	0.82745	31,5	1.2085	4,6
.181	.47533	178	.78230	148	.82777	31,5	.2081	4,6
.182	.47711	178	.78378	148	.82808	31,4	.2076	4,6
.183	.47890	179	.78525	148	.82840	31,4	.2072	4,6
.184	.48068	179	.78673	148	.82871	31,3	.2067	4,6
1.185	1.48247	179	1.78822	148	0.82902	31,3	1.2062	4,6
.186	.48426	179	.78970	148	.82933	31,2	.2058	4,5
.187	.48605	179	.79119	149	.82965	31,2	.2053	4,5
.188	.48784	179	.79267	149	.82996	31,1	.2049	4,5
.189	.48964	179	.79416	149	.83027	31,1	.2044	4,5
1.190	1.49143	180	1.79565	149	0.83058	31,0	1.2040	4,5
.191	.49323	180	.79714	149	.83089	31,0	.2035	4,5
.192	.49502	180	.79864	150	.83120	30,9	.2031	4,5
.193	.49682	180	.80013	150	.83151	30,9	.2026	4,5
.194	.49862	180	.80163	150	.83182	30,8	.2022	4,5
1.195 .196 .197 .198 .199	1.50043 .50223 .50101 .50584 .50765	180 181 181 181	1.80313 .80463 .80614 .80764 .80915	150 150 150 151 151	0.83212 .83243 .83274 .83304 .83335	30,8 30,7 30,7 30,6 30,6	1.2017 .2013 .2009 .2004 .2000	4,4 4,4 4,4 4,4 4,4
1.200	1.50946	181	1.81066	151	0.83365	30,5	1.1995	4,4
u	tạn gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

			Natural I	Iyperbo	olic Funct	ions.		
u .	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.200	1.50946	181	1.81066	151	0.83365	30,5	1.1995	4.4
.201	.51127	181	.81217	151	.83396	30,5	.1993	4,4 4,4
.202	51300	181	.81368	151	.83426	30,4	.1987	4,4
.203	.51490	182	.81519	151	.83457	30,3	.1982	4,4
.204	.51672	182	.81671	152	.83487	30,3	.1978	4,3
1.205	1.51853	182	1.81823	152	0.83517	30,2	1.1974	
.205	.52035	182	.81974	152	.83548	30,2	.1969	4,3
.207	.52217	182	.82127	152	.83578	30,2 30,1	.1965	4,3 4,3
.208	52400	182	.82279	152	.83608	30,1	.1961	4,3
.209	.52582	182	.82431	153	.83638	30,0	.1956	4,3
		-0-			A 1 1 1 1			
1.2IO .2II	1.52764 .52947	183 183	1.82584 .82737	153 153	0.83668 .83698	30,0 29,9	1.1952 .1948	4,3 4,3
.212	.53130	183	.82890	153	.83728	29,9	.1943	4,3
.213	.53313	183	.83043	153	.83758	29,9	.1943	4,3
.214	.53496	183	.83197	153	.83788	29,8	.1939	4,2
·		_			•			
1.215	1.53679	183	1.83350	154	0.83817	29,7	1.1931	4,2
.216	. 53863	184	.83504	154	.83847	29,7	.1926	4,2
.217	. 54046	184	.83658	154	.83877	29,6	.1922	4,2
.218	. 54230	184	.83812	154	.83906	29,6	.1918	4,2
.219	•54414	184	.83966	154	.83936	29,5	.1914	4,2
1.220	1.54598	184	1.84121	155	0.83965	29,5	1.1910	4,2
.221	.54782	184	.84276	155	.83995	29,4	.1905	4,2
.222	.54966	184	.84430	155	.84024	29,4	.1901	4,2
.223	.55151	185	.84586	155	.84054	29,3	. 1897	4,2
.224	55336	185	.84741	155	.84083	29,3	.1893	4,1
1.225	1.55520	185	1.84806	156	0.84112	29,3	1.1889	4,1
.226	.55705	185	.85052	156	.84142	29,2	.1885	4,1
.227	.55891	185	.85208	156	.84171	29,2	.1881	4,1
.228	.56076	185	.85364	156	.84200	29,1	.1877	4,1
.229	.56261	186	.85520	156	.84229	29,1	. 1872	4,1
	6	186	- 0-6-6	6	0.84258	20.0	1.1858	4.7
1.230	1.56447	186	1.85676	156	.84287	29,0	.1854	4,1
.231	.56633	186	.85833 .85989	157	.84316	29,0 28,9	.1850	4,1
.232		186	.86146	157	84345	28,9	.1856	4,1 4,1
.233	.57005 .57191	186	.86303	157 157	.84374	28,8	. 1852	4,1
.234	.3/191	100		137	.043/4			4,1
1.235	1.57377	186	1.86461	157	0.84402	28,8	1.1848	4,0
.236	57564	187	.86518	158	.84431	28,7	.1844	4,0
.237	•57750	187	.86776	158	.84460	28,7	.1840	4,0
.238	57937	187	.86934	158	84488	28,6	. 1836	4,0
.239	.58124	187	87092	158	.84517	28,6	.1832	4,0
1.240	1.58311	187	1.87250	158	0.84546	28,5	1.1828	4,0
.241	. 58499	187	.87408	158	.84574	28,5	.1824	4,0
.242	. 58586	188	.87567	159	.84602	28,4	.1820	4,0
.243	.58874	188	.87726	159	.84631	28,4	.1816	4,0
.244	.59052	188	.87885	159	.84659	28,3	.1812	4,0
1.245	1.59250	188	1.88044	159	0.84688	28,3	1.1808	3,9
.246	59438	188	.88203	159	84716	28,2	. 1804	3,9
.247	.59626	188	.88363	160	.84744	28,2	. 1800	3.9
.248	.59815	189	.88522	160	.84772	28,1	.1796	3,9
.249	.60003	189	.88582	160	.84800	28,1	. 1792	3,9
1.250	1.60192	189	1.88842	160	0.84828	28,0	1.1789	3,9
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

vers to	sinh u	ω F <sub>C</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.250	1.60192	189	1.88842	160 160	0.84828	28,0	1.1789	3,9
.251	.60381	189 189	.89003 .89163	161	.84856 .84884	28,0	.1785	3,9 3,9
.252	.60570 .60759	189	.89324	161	.84912	27,9 27,9	.1777	3.9
.254	60949	189	.89485	161	.84940	27,9	.1773	3,9
1.255	1.61138	190	1.89646	161 161	0.84968 .84996	27,8	1.1769	3,9 3,8
.256	.61328 .61518	190 190	.89807 .89968	161	.85023	27,8 27,7	. 1765 . 1761	3,6 3,8
.258	.61708	190	.90130	162	.85051	27,7	.1758	3,8
.259	.61898	190	.90292	162	.85079	27,6	1754	3,8
1.260	1.62088	190	1.90454	162	0.85106	27,6	1.1750	3,8
.261 .262	.62279 .62470	191	.90616	162 162	.85134 .85161	27,5	.1746	3,8 3,8
.263	.62661	191 191	.90778 .90941	163	.85189	27,5 27,4	.1742 .1739	3,8 3,8
,264	.62851	191	.91104	163	.85216	27,4	.1735	3,8
1.265	1.63043	191	1.91267	163	0.85244	27,3	1.1731	3,8 3,8
.266 .267	.63234	191 192	.91430	163 163	.85271 .85298	27,3 27,2	.1727 .1724	3,8 3,7
.268	.63617	192	.91593 .91757	164	.85325	27,2	1724	3.7 3.7
269	63809	192	.91920	164	.85353	27,1	.1716	3.7
1.270	1.64001	192	1.92084	164	0.85380	27,1	1.1712	3.7
.271 .272	.64193 .64386	192 192	.92248 .92413	164 164	.85407 .85434	27,I 27,0	.1709 .1705	3,7 3,7
.273	.64578	192	.92577	165	.85461	27,0	.1701	3,7
.274	.64771	193	92742	165	.85488	26,9	. 1698	3.7
1.275	1.64964	193	1.92907 .93072	165 165	0.85515 .85542	26,9 26,8	1.1694 .1690	3,7
.276	.65157 .65350	193 193	.930/2	165	.85568	26,8	1687	3,7 3,7
.278	.65543	193	.93402	166	85595	26,7	. 1683	3.6
.279	.65736	194	.93568	166	.85622	26,7	. 1679	3,6
1.280	1.65930	194	1.93734	166 166	0.85648 .85675	26,6 26,6	1.1676 .1672	3,6 3,6
.281	.66124 .66318	194 194	.93900 .94066	166	.85702	26,6 26,6	.1668	3,6
.283	.66512	194	94233	167	85728	26,5	.1665	3,6
.284	.66706	194	.94399	167	.85755	26,5	. 1661	3,6
1.285 .286	1.66901	195	1.94566	167 167	0.85781 .85808	26,4 26,4	1.1658 .1654	3,6 3,6
.287	.67096 .67200	195 195	·94733	167	.85834	26,3	. 1650	3,6
.288	.67485	195	.95068	167	85860	26,3	.1647	3.6
.289	.67680	195	.95235	168	.85886	26,2	.1643	3,6
1.290	1.67876	195	1.95403	168	0.85913	26,2	1.1640	3,5
.291	.68071	196	.95571	168	.85939	26,1	.1636	3,5
.292	.68267	196	95739	168	.85965	26,1	. 1633	3,5
.293 .294	.68463 .68659	196 196	.95907 .96076	168 169	.85991 .86017	26,1 26,0	. 1629 . 1626	3,5 3,5
1.295	1.68855	196	1.96245	169	0.86043	26,0	1.1622	3,5
.296	.69051	196	.96414	169	.86069	25,9	.1619	3,5
.297	.69248	197	.96583	169	.86095	25,9	. 1615	3.5
.298	.69444	197	.96752	169	.86121	25,8	.1612	3,5
.299	.69641	197	.96922	170	.86147	25,8	.1608	3,5
1.300	1.69838	197	1.97091	170	0.86172	25,7	1.1005	3,5
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω.F <sub>0</sub> ′.	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′						
<del>- "</del>	Sinn u	ω <b>r</b> 0	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.300	1.69838	197	1.97091	170	0.86172	25,7	1.1605	3,5
.301	.70035	197	.97261	170	.86198	25,7	.1601	3,5
.302	.70233	197	97431	170	86224	25,7	.1598	3,5
.303	.70430	198	97602	170	86249	25,6	.1594	3,4
.304	.70628	198	.97772	171	.86275	25,6	.1591	3.4
1.305	1.70826	198	1.97943	171	0.86300	25,5	1.1587	3,4
.306	.71024	198	.98114	171	.86326	25,5	1584	3,4
.307	.71222	198	.98285	171	.86351	25,4	.1581	3,4
.308	.71420	198	.98456	171	.86377	25,4	.1577	3,4
.309	.71619	199	.98628	172	86402	25,3	.1574	3,4
1.310	1.71818	199	1.98800	172	0.86428	25,3	1.1570	3,4
.311	.72017	199	.98972	172	.86453 .86478	25,3	.1567	3,4
.312	.72216	199	.99144	172	96700	25,2	.1564	3,4
.313	72415	199	.99316	172	.86503 .86528	25,2	.1560	3,4
.3.14	.72614	199	.99489	173	_	25,1	.1557	3,4
1.315	1.72814	200	1.99661	173	0.86554	25,1	1.1554	3,3
.316	.73014	200	.99834	173	.86579 .86604	25,0	.1550	3,3
.317	.73214 .73414	200 200	2.00007	173 173	.86629	25,0 25,0	.1547 .1544	3,3
.319	.73614	200	.00354	173	.86653	24,9	.1544	3,3 3,3
1.320	1.73814	201	2.00528	174	0.86678		T 1507	
.321	.74015	201	.00702	174	.86703	24,9 24,8	1.1537 .1534	3,3 3,3
.322	.74216	201	.00876	174	.86728	24,8	.1530	3,3
.323	.74417	201	.01050	174	86753	24,7	.1527	3,3
.324	74618	201	.01225	175	.86778	24,7	.1524	3,3
1.325	1.74819	201	2.01399	175	0.86802	24,7	1.1520	3,3
.326	,75021	202	.01574	175	.86827	24,6	.1517	3,3
.327	.75222	202	.01749	175	.86851	24,6	.1514	3,3
.328	.75424	202	.01925	175	.86876	24,5	.1511	3,2
.329	.75626	202	.02100	176	.86900	24,5	1507	3,2
1.330	1.75828	202	2.02276	176	0.86925	24,4	1.1504	3,2
.331	.76031	202	.02452	176	.86949	24,4	.1501	3,2
.332	.76233	203	.02628	176	.86974	24,4	.1498	3,2
•333	.76436	203	.02804	176	.86998	24,3	1495	3,2
•334	.76639	203	.02981	177	.87022	24,3	.1491	3,2
1.335	1.76842	203	2.03158	177	0.87047	24,2	1.1488	3,2
.336	.77045	203	.03335	177	.87071	24,2	. 1485	3,2
•337	.77249	204	.03512	177	.87095	24,1	.1482	3,2
.338	.77452	204	.03689	1 <i>77</i> 1 <i>7</i> 8	.87119	24,1	. 1479	3,2
• <b>3</b> 39	.77656	204	.0300/		.87143	24,1	.1475	3,2
1.340	1.77860	204	2.04044	178	0.87167	24,0	1.1472	3,2
.341	.78064	204	.04222	178	.87191	24,0	. 1469	3,2
.342	.78268	204	.04401	178	.87215	23,9	. 1466	3,1
•343	.78473	205	.04579	178	.87239	23,9	. 1463	3,1
•344	.78677	205	.04758	179	.87263	23,9	.1460	3,1
1.345	1.78882	205	2.04936	179	0.87287	23,8	1.1456	3,1
.346	.79087	205	.05115	179	.87311	23,8	.1453	3,1
•347	.79293	205	.05294	179	87334	23,7	.1450	3,1
.348 .349	.79498 .79704	205 206	.05474 .05653	179	.87358 .87382	23,7 23,6	. 1447 . 1444	3,1 3,1
								1
1.350	1.79909	206	2.05833	180	0.87405	23,6	1.1441	3,1
u	tan gd u	ω F <sub>0</sub> '	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	- ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
T 270	1.79909	206	2.05833	180	0.87405	23,6	1,1441	3,
1.350	.80115	206	.06013	180	.87429	23,6	1438	3,
.351		206	.06194	180	.87452	23,5	.1435	· 3,
.352	.80321	206	.06374	181	.87476	23,5	.1432	3,
.353	80528		.003/4	181	.87499		.1429	3,
•354	.80734	207	.06555	101	.0/499	23,4	.1429	<b>ی</b> در در در
1.355	1.80941	207	2.06735	181	0.87523	23,4	1.1426	3,
.356	.81148	207	.06916	181	.87546	23,4	.1423	3,
.357	.81355	207	.07098	181	.87570	23,3	.1419	3,0
.358	.81562	207	.07279	182	.87593	23,3	. 1416	3,
•359	.81769	207	.07461	182	.87616	23,2	.1413	3,
1.360	1.81977	208	2.07643	182	0.87639	23,2	1.1410	3,
.361	.82184	208	.07825	182	.87662	23,2	.1407	3,
362	.82392	208	.08007	182	.87686	23,1	. 1404	3,
.363	.82600	208	.08190	183	.87709	23,1	. 1401	3,
.364	.82809	208	.08372	183	.87732	23,0	.1398	3,
		10.00					17.2	\$40.00 pp.
1.365	1.83017	209	2.08555 .08738	183 183	0.87755 .87778	23,0 23,0	1.1395	3, 3,
.366	.83226	209		183	.87801	23,0	.1392	
.367	.83435	209	.08922				1309	3,
.368	.83644	209	.09105	184	.87824	22,9	.1386	3,
.369	.83853	209	.09289	184	.87846	22,8	.1384	3,
1.370	1.84052	209	2.09473	184	0.87869	22,8	1.1381	3,
.371	.84272	210	.09657	184	87892	22,7	.1378	2,
.372	.84482	210	.09841	184	.87915	22,7	.1375	2,
.373	.84691	210	.10026	185	.87937	22,7	.1372	2,
374	.84902	210	.10211	185	.87960	22,6	.1369	2,
1.375	1.85112	210	2.10396	185	0.87983	22,6	1.1366	2,
.376	85322	211	. 10581	185	.88005	22,6	.1363	2,
	.85533	211	.10766	186	.88028	22,5	.1360	2,
· 377 · 378	.85744	211	10952	186	.88050	22,5	.1357	2,
· 379	.85955	211	.11138	186	.88073	22,4	.1354	2,
1.380	1.86166	211	2.11324	186	0.88095	22,4	1.1351	2
1.300	.86378		.11510	185	.88117	22,4	.1348	2,
.381		212		187	.88140	22,3	.1346	2
.382	.86589	212	.11697		.88162			2, 2,
.383	.86801	212	.11883	187		22,3	.1343	
. 384	.87013	212	. 12070	187	.88184	22,2	.1340	2,
1.385	1.87225	212	2.12257	187	0.88207	22,2	1.1337	2 2 2
. 386	.87437	212	.12445	187	.88229	22,2	.1334	2
.387	.87650	213	.12632	188	.88251	22,I	.1331	2
.388	.87863	213	.12820	188	.88273	22,1	.1328	2 2
.389	.88076	213	.13008	188	.88295	22,0	.1326	
1.390	1.88289	213	2.13196	188	0.88317	22,0	1.1323	2 2 2
.391	.88502	213	. 13385	189	.88339	22,0	.1320	2
.392	.88716	214	.13573	189	.88361	21,9	.1317	2
.392	.88929	214	13762	189	.88383	21,9	.1314	2
· 393 · 394	.89143	214	13951	189	.88405	21,8	.1312	2
	1	27.4	OKTAT O	189	0.88427	21,8	1.1309	,
1.395	1.89357	214 214	2.14140	190	.88448	21,8	.1306	2
396	.89571			190	.88470	21,7	. 1303	sautawa 🖥
397	.09/00	215	14520	190	.88492	21,7	1300	- · · · · · · · · · · · · · · · · · · ·
.398	.90000	215 215	.14709	190	.88513	21,7	.1298	2 2 2 2 2
1.400	1.90430	The state of	2.15090	190	0.88535	21,6	1.1295	2
u	tan gd u	+	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω <b>F</b> <sub>0</sub> ′

			Natural 1	Hyperb	olic Func	tions.		ele la Vega Le
u 🖖	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.400	1.90430	215	2.15000	190	0.88535	21,6	1.1295	2,8
.401	.90645	215	.15280	191	.88557	21,6	.1292	2,8
.402	.90861	215	.15471	191	.88578	21,5	.1289	2,7
.403	.91076	216	15662	191	.88600	21,5	.1287	2,7
.404	.91292	216	.15853	191	.88621	21,5	.1284	2,7
1.405	1.91508	216	2.16045	192	0.88643	21,4	1.1281	2,7
.406	.91724	216	.16236	192	88664	21,4	.1279	2,7
.407	.91940	216	16428	192	.88686	21,3	.1276	2,7
.408		217	16620	192	88707			
.409	.92157	217	.16812	192	.88728	21,3 21,3	.1273	2,7 2,7
		017	a 1700f	702	0.88749		7 7060	
1.410	1.92591	217	2.17005	193		21,2	1.1268	2,7
.411	.92808	217	.17198	193	.88771	21,2	.1265	2,7
.412	.93025	217	.17391	193	.88792	21,2	.1262	2,7
.413	.93242	218	.17584	193	.88813	21,1	.1260	2,7
.414	.93460	218	•17777	193	.88834	21,1	.1257	2,7
1.415	1.93678	218	2.17971	194	0.88855	21,0	1.1254	2,7
.416	.93896	218	. 18164	194	88876	21,0	.1252	2,7
.417	.94114	218	.18358	194	.88897	21,0	.1249	2,7
.418	•94333	219	18553	194	.88918	20,9	.1246	2,6
.419	•94551	219	18747	195	.88939	20,9	.1244	2,6
1.420	1.94770	219	2.18942	195	0.88060	20,9	1.1241	2,6
.421	.94989	219	.19137	195	.88981	20,8	.1238	<b>2,</b> 6
.422	.95209	210	.19332	195	89002	20,8	.1236	2,6
	.95428	220	19527	195	.89022	20,8	.1233	2,6
.423 .424	.95648	220	19723	196	.89022	20,7	.1231	2,0 2,6
T 40F	1.95867	220	2.19918	196	0.89064	20.1	7 7000	
1.425		220				20,7	1.1228	2,6
.426	.96087	220	.20114	196	.89084	20,6	.1225	2,6
.427	.96308	220	.20310	196	89105	20,6	1223	2,6
.428	.96528	221	20507	197	.89126	20,6	.1220	2,6
.429	.96749	221	.20704	197	.89146	20,5	.1218	<b>2,</b> 6
1.430	1.96970	221	2.20900	197	0.89167	20,5	1.1215	2,6
431	.97191	221	.21097	197	.89187	20,5	.1212	2,6
.432	.97412	221	.21295	197	.89208	20,4	.1210	2,6
•433	.97633	221	.21492	198	.80228	20,4	.1207	2,6
•434	.97855	222	.21690	198	.89248	20,3	1205	2,6
1.435	1.98076	222	2.21888	198	0.80260	20,3	1.1202	2,5
.436	.98298	222	.22086	198	.89289	20,3	.1200	2,5 2,5
.437	.98521	222	.22285	199	.80300	20,3	.1197	2,5 2,5
.438	.98743	222	.22483	199	.89329	20,2	.1195	2,5 2,5
•439	.98966	223	.22682	199	.89350	20,2	.1193	2,5 2,5
1.440	1.99188	223	2.22881	199	0.89370	20,1	1.1189	
		223	.23080	199	89390		.1187	2,5
.441	.99411 .99635			200	.89390	20,1		2,5
.442	•99035	223	.23280		9010	20,1	.1184	2,5
·443 ·444	.99858 2.00082	223 224	.23480 .23680	200 200	.89430 .89450	20,0 20,0	.1182	2,5 2,5
ļ		-	1.00			\$3.50 m ta . *		
1.445	2.00305	224	2.23880	200	0.89470	20,0	1.1177	2,5
.446	.00529	224	.24080	201	.89490	19,9	.1174	2,5
•447	.00753	224	.24281	201	89510	19,9	.1172	2,5
.448	.00978	224	.24482	201	.89530	19,8	.1169	2,5
•449	.01202	225	.24683	201	.89550	19,8	.1167	2,5
1.450	2.01427	225	2.24884	201	0.89569	19,8	1.1165	2,5
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω Fo'
1.450	2.01427	225	2.24884	201	0.89569	19,8	1.1165	2,5
.451	.01652	225	.25086	202	.89589	19,7	.1162	2,5
.452	.01877	225	.25288	202	.89609	19,7	.1160	2,5
•453	.02103	225	.25490	202	.89628	19,7	.1157	2,4
•454	.02328	226	.25692	202	.89648	19,6	.1155	2,4
1.455	2.02554	226	2.25894	203	0.89668	19,6	1.1152	2,4
.456	.02780	226 226	.26097	203	.89687	19,6	.1150	2,4
·457 ·458	.03006	220	.26300 .26503	203 203	.89707 .89726	19,5	.1147	2,4 2,4
.459	.03459	227	.26706	203	.89746	19,5	.1143	2,4
1.460	2.03686	227	2.26910	204	0.89765	19,4	1.1140	2,4
.461	.03913	227	.27114	204	.89785	19,4	.1138	2,4
.462	,04140	227	.27318	204	.89804	19,4	.1135	2,4
.463	.04368	228	.27522	204	.89823	19,3	.1133	2,4
.464	.04595	228	.27726	205	.89843	19,3	.1131	2,4
1.465	2.04823	228	2.27931	205	0.89862	19,2	1.1128	2,4
.466	.05051	228	.28136	205	.89881	19,2	.1126	2,4
.467 .468	.05280	228 229	.28341 .28547	205 206	.89900 .89920	19,2	.1123	2,4
.469	.05737	229	.28752	206	.89939	19,1 19,1	.1119	2,4 2,4
1.470	2.05965	220	2.28958	206	0.89958	19,1	1.1116	2,4
.471	.05195	229	.29164	206	.89977	19,0	.1114	2,4
.472	.05424	220	.29370	206	89996	19,0	.1112	2,3
•473	.05653	230	.29577	207	.90015	19,0	.1109	2,3
•474	.06883	230	.29784	207	.90034	18,9	.1107	2,3
1.475	2.07113	230	2.29991	207	0.90053	18,9	1.1105	2,3
.476	.07343	230	.30198	207	.90072	18,9	.1102	2,3
•477	.07573	230	.30405	208	.90090	18,8	.1100	2,3
478	.07804	231	.30613	208	.90109	18,8	.1098	2,3
•479	.08034	231	.30821	208	.90128	18,8	. 1095	2,3
1.480	2.08265	231	2.31029	208	0.90147	18,7	1.1093	2,3
.481	.08497	231	.31238	208	.90166	18,7	.1001	2,3
.482	.08728	231	.31446	209	.90184	18,7 18,6	.1088	2,3
.484	.00939	232 232	.31655 .31864	209 209	.90203	18,6	.1084	2,3 2,3
	1.7%						0-	
1.485 .486	2.09423 .09655	232 232	2.32073	209 210	0.90240 .90259	18,6 18,5	1.1082	2,3 2,3
487	.09888	232	.32493	210	.90239	18,5	.1077	2,3
.488	.10120	233	.32703	210	.90296	18,5	.1075	2,3
.489	. 10353	233	.32913	210	90314	18,4	.1072	2,3
1.490	2.10586	233	2.33123	211	0.90332	18,4	1.1070	2,3
.491	.10819	233	33334	211	90351	18,4	.1068	2,2
.492	.11053	234	-33545	211	.90369	18,3	. 1056	2,2
•493	.11286	234	.33756	211	.ço388	18,3	. 1063	2,2
•494	.11520	234	.33968	212	.90406	18,3	.1061	2,2
1.495	2.11754	234	2.34179	212	0.50424	18,2	1.1059	2,2
.496	.11989	234	.34391	212	.00442	18,2	.1057	2,2
•497	.12223	235	.34603	212	.90450	18,2	.1055	2,2
.498 .499	.12458	235 235	.34816 .35028	212 213	.90479 .90497	18,1 18,1	.1052 .1050	2,2 2,2 2,2 2,2 2,2
1.500	2.12928	235	2.35241	213	0.90515	18,1	1.1048	2,2
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ωF <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′
					-			

			Natural I	Lyperb	olic Funct	ions.		
u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.500	2.12928	235	2.35241	213	0.90515	18,1	1.1048	2,2
.501	.13163			213	.90533	18,0	.1046	2,2
		235	•35454			18,0		
.502	.13399	236	.35667	213	.90551	18,0	.1044	2,2
.503 .504	.13635	236 236	.35881 .36095	214 214	.90569 .90587	17,9	.1041	2,2 2,2
1.505	2.14107	236	2.36300	214	0.90605	17,9	1.1037	2,2
.506	14343	237	36523	214	.90523	17,9	.1035	2,2
	.14580		36737	215	90641	17,8		
.507		237					. 1033	2,2
.508	14817	237	.36952	215	.90658	17,8	.1030	2,2
.509	.15054	237	.37167	215	.90676	17,8	.1028	2,2
1.510	2.15291	237	2.37382	215	0.90694	17,7	1.1026	2,2
.511	.15529	238	•37597	216	.90712	17,7	.1024	2,2
.512	.15766	238	.37813	216	.90729	17,7	.1022	2,1
.513	.16004	238	38029	216	.90747	17,6	.1020	2,1
.514	.16242	238	.38245	216	.90765	17,6	.1018	<b>2,</b> I
1.515	2.16481	238	2.38461	216	0.90782	17,6	1.1015	2,1
.516	. 16719	239	.38678	217	.90800	17,6	.1013	2,1
.517	.16958	239	.38895	217	.90817	17,5	.1011	2,1
.518	.17197	239	.39112	217	.90835	17,5	.1009	2,1
.519	. 17436	239	.39329	217	.90852	17,5	.1007	2,1
1.520	2.17676	240	2.39547	218	0.90870	17,4	1.1005	2,1
.521	17915	240	.39765	218	.90887	17,4	.1003	2,1
.522	.18155	240	39983	218	.90905	17,4	.1001	2,1
.523	.18395	240	40201	218	.90922	17,3	.0998	2,1
.524	. 18636	240	40419	219	.90939	17,3	.0996	2,1
1.525	2.18876	241	2.40638	210	0.90957	17,3	1.0004	2,1
.526	.19117	241	40857	219	.90974	17,2	0992	2,1
.527	.19358	241	41076	219	.90991	17,2	.0992	2,1
.528	.19599	241	41296	220	.91008	17,2	.0988	2,1
.529	.19840	242	.41516	220	91025	17,1	.0986	2,1 2,1
1.530	2.20082	242	2.41736	220	0.91042	17,1	1.0084	
	.20324	242	.41956	220	.91060		.0982	2,1
.531	.20324			22I		17,1		2,1
.532	.20808	242	.42176		.91077	17,1	.0980	2,1
•533	.21051	242	.42397	221	.91094	17,0	.0978	2,1
•534	.21051	243	.42618	221	.91111	17,0	.0976	2,0
1.535	2.21293	243	2.42839	221	0.91128	17,0	1.0974	2,0
.536	.21536	243	.43060	222	.91145	16,9	.0972	2,0
•537	.21780	243	.43282	222	.91161	16,9	.0970	2,0
.538	.22023	244	•43504	222	.91178	16,9	.0968	2,0
•539	.22267	244	.43726	222	.91195	16,8	.0965	2,0
1.540	2.22510	244	2.43949	223	0.91212	16,8	1.0963	2,0
.541	.22755	244	.44171	223	.91229	16,8	.0961	2,0
.542	.22999	244	•44394	223	.91246	16,7	.0959	2,0
•543	.23243	245	.44617	223	.91262	16,7	.0957	2,0
•544	.23488	245	.44841	223	.91279	16,7	.0955	2,0
1.545	2.23733	245	2.45064	224	0.91296	16,7	1.0953	2,0
.546	.23978	245	.45288	224	.91312	16,6	.0951	2,0
547	.24224	246	.45512	224	.91329	16,6	.0949	2,0
548	.24469	246	.45736	224	.91345	16,6	.0947	2,0
* 549	.24715	246	.45961	225	.91362	16,5	.0945	2,0
1.550	2.24961	246	2.46186	225	0.91379	16,5	1.0943	2,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.550 .551 .552 .553 .554	2.24961 .25207 .25454 .25701 .25948	246 246 247 247 247	2.46186 .46411 .46636 .46852 .47088	225 225 225 226 226	0.91379 .91395 .91411 .91428 .91444	16,5 16,5 16,4 16,4 16,4	1.0943 .0942 .0940 .0938 .0936	2,0 2,0 2,0 2,0 2,0
1.555 .556 .557 .558 .559	2.26195 .26442 .26690 .26938 .27186	247 248 248 248 248 248	2.47314 .47540 .47757 .47993 .48221	226 226 227 227 227	0.91461 .91477 .91493 .91510 .91526	16,3 16,3 16,3 16,3 16,2	1.0934 .0932 .0930 .0928 .0926	2,0 2,0 1,9 1,9 1,9
1.560 .561 .562 .563 .564	2.27434 .27683 .27932 .28181 .28430	248 249 249 249 249	2.48448 .48675 .48903 .49131 .49360	227 228 228 228 228 228	0.91542 .91558 .91574 .91591 .91607	16,2 16,2 16,1 16,1 16,1	1.0924 .0922 .0920 .0918 .0916	1,9 1,9 1,9 1,9
1.565 .566 .567 .568 .569	2.28579 .28929 .29179 .29429 .29680	250 250 250 250 251	2.49588 .49817 .50046 .50275 .50505	229 229 229 229 230	0.91623 .91639 .91655 .91671 .91687	16,1 16,0 16,0 16,0 15,9	1.0914 .0912 .0911 .0909 .0907	1,9 1,9 1,9 1,9 1,9
1.570 .571 .572 .573 .574	2.29930 .30181 .30432 .30583 .30935	251 251 251 251 251 252	2.50735 .50965 .51195 .51426 .51656	230 230 230 231 231	0.91703 .91718 .91734 .91750 .91766	15,9 15,9 15,8 15,8 15,8	1.0905 .0903 .0901 .0899 .0897	1,9 1,9 1,9 1,9
1.575 .576 .577 .578 .579	2.31187 .31439 .31691 .31943 .32196	252 252 252 252 253 253	2.51887 .52119 .52350 .52582 .52814	23I 23I 232 232 232 232	0.91782 .91797 .91813 .91829 .91845	15,8 15,7 15,7 15,7 15,6	1.0895 .0894 .0892 .0890 .0888	1,9 1,9 1,9 1,9
1.580 .581 .582 .583 .584	2.32449 .32702 .32956 .33209 .33463	253 253 254 254 254 254	2.53047 .53279 .53512 .53745 .53978	232 233 233 233 233	0.91860 .91876 .91891 .91907 .91922	15,6 15,6 15,6 15,5 15,5	1.0886 .0884 .0882 .0881 .0879	1,9 1,8 1,8 1,8 1,8
1.585 .586 .587 .588 .589	2.33717 .33972 .34226 .34481 .34736	254 254 255 255 255	2.54212 .54446 .54680 .54914 .55149	234 234 234 234 235	0.91938 .91953 .91969 .91984 .92000	15,5 15,4 15,4 15,4 15,4	1.0877 .0875 .0873 .0871 .0870	1,8 1,8 1,8 1,8 1,8
1.590 .591 .592 .593 .594	2.34991 .35247 .35502 .35758 .36015	255 256 256 256 256 256	2.55384 .55619 .55854 .56090 .56326	235 235 236 236 236	0.92015 .92030 .92046 .92061 .92076	15,3 15,3 15,3 15,2 15,2	1.0868 .0866 .0864 .0862 .0861	1,8 1,8 1,8 1,8 1,8
1.595 .596 .597 .598 .599	2.36271 .36528 .36785 .37042 .37299	257 257 257 257 258	2.56562 .56798 .57035 .57272 .57509	236 237 237 237 237	0.92091 .92106 .92122 .92137 .92152	15,2 15,2 15,1 15,1 15,1	1.0859 .0857 .0855 .0853 .0852	1,8 1,8 1,8 1,8 1,8
1.600	2.37557	258	2.57746	238	0.92167	15,1	1.0850	1,8
u	tan gd u	ω F <sub>0</sub> '.	sec gđ u	ω F <sub>0</sub> ′	sin gd u	∞ F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.600	2.37557	258	2.57746	238	0.92167	15,1	1.0850	I
.601	.37815	258	•57984	238	.92182	15,0	.0848	I
.602 .603	38073	258	.58222	238	.92197	15,0	.0846	I
.603	.38331 .38590	258 259	.58460 .58699	238 239	.92212 .92227	15,0 14,9	.0845	I
1.605	2.38849	259	2.58937	239	0.92242	14,9	1.0841	I
.606	.39108	259	.59176	239	.92257	14,9	.0839	I
.607 .608	.39367 .39626	259 260	.59416 .59655	239 240	.92272	· 14,9	.0838	I
.609	.39886	26 <b>0</b>	.59895	240	.92301	14,8	.0834	. I
1.610	2.40146	260	2.60135	240	0.92316	14,8	1.0832	I
.611 .612	.40406	260	.60375	240	.92331	14,8	.0831	I
.613	.40667 .40928	261 261	.60616 .60857	. 24I 24I	.92346	14,7 14,7	.0829	. I
.614	41189	261	.61098	241	.92375	14,7	.0825	I
1.615	2.41450	261	2.61339	241	0.92390	14,6	1.0824	1
.616 .617	.41711	262 262	.61581 .61822	242	.92404	14,6	.0822	I
.618	.41973 .42235	262	.62064	242 242	.92419	14,6 14,6	.0820	I
.619	.42497	262	.62307	242	.92448	14,5	.0817	ī
1.620	2.42760	263	2.62549	243	0.92462	14,5	1.0815	. I
.621 .622	.43022	263 263	62792	243	.92477	14,5	.0814	I
.623	.43285 .43548	263 263	.63035 .63279	243 244	.92491 .92506	14,5	.0812	I
.624	.43812	264	.63522	244	.92520	14,4	.0808	Ī
1.625	2.44075	264	2.63767	244	0.92535	14,4	1.0807	I
.626 .627	·44339 ·44603	264 264	.64011	244	92549	14,3	.0805	. I
.628	.44868	264 264	.64500	245 245	.92563	14,3	.0803	· I
.629	.45132	265	.64745	245	.92592	14,3	.0800	ī
1.630	2.45397	265	2.64990	245	0.92606	14,2	1.0798	I
.631 .632	.45662	265 265	.65236 .65482	246 246	.92620	14,2	.0797	1
.633	.45928	265 266	.65728	246 246	.92635 .92649	I4,2 I4,2	.0795	I
.634	.46459	266	.65974	246	.92663	14,1	.0792	Î
1.635	2.46725	266	2.66221	247	0.92677	14,1	1.0790	I
.636 .637	.46992 .47258	266 267	.66467 .66715	247 247	.92691	14,1	.0789 .0787	I
.638	.47525	267 267	66962	247 248	.92705	14,1	.0785	ī
.639	47792	267	.67210	248	92733	14,0	.0784	Ī
1.640	2.48059	267 268	2.67457 .67706	248	0.92747	14,0	1.0782	I
.641 .642	.48327 .48595	208 268	67954	248 249	.92761	14,0	.0780	I
.643	48863	268	.68203	249	.92789	13,9	0777	Ī
.644	.49131	268	.68452	249	.92803	13.9	.0776	I
1.645 .646	2.49400 .49669	269 269	2.68701 .68951	249	0.92817	13,9 13,8	1.0774	I
.640 .647	.49009	269 269	.69200	250 250	.92831	13,8	.0772	1
.648	.50207	<b>2</b> 69	.69451	250	92858	13,8	.0769	ī
.649	.50477	270	.69701	250	.92872	13,7	.0768	I
1.650	2.50746	270	2.69951	251	0.92886	13,7	1.0766	I
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

I u	sinh u	ω F <sub>0</sub> ′	çosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
	- Juliu U		er en de 1 d'ar en		, <del></del> -			
1.650	2.50746	270	2.69951	251	0.92886	13,7	1.0766	1,6
.651 .652	51017	270	.70202 .70454	251	.92899 .92913	13,7	.0764	1,6 1,6
.653	.51287 .51557	270 271	.70454 .70705	251 252	.92913	13,7 13,6	.0761	1,6
.654	.51828	27I	70957	252	92940	13,6	,0760	1,6
1.655	2.52099	27 I	2.71 <i>2</i> 09	252	0.92954	13,6	1.0758	1,6
.656	.52371	271	.71461	252	.92968	13,6	.0756	1,6
.657 .658	.52642	272	.71713	253	.92981	13,5	.0755	1,6 ↓ 1,6
.659	.52914 .53186	272 272	.72219	253 253	.92995 .93008	13,5 13,5	.0753	1,0
		9941 20	Barana Andre		1000			1,6
1.660 .661	2.53459 .53731	272 273	2.72472 .72726	253 254	0.93022 -93035	13,5 13,4	1.0750 .0749	1,6 1,6
.662	54004	273	72980	254 254	.93049	13,4	.0747	1,5
.663	.54277	273	.73234	254	.93062	13,4	.0746	1,5
,664	•54551	273	.73489	255	93075	13,4	.0744	1,5
1.665	2.54824	274	2.73743	255	0.93089	13,3	1.0742	1,5
.666 .667	55098	274	73998	255 255	.93102	13,3	.0741	I,5 I,5
.668	•55372 •55647	274 275	•74253 •74509	256	93129	13,3	.0738	1,5
.669	55921	275	.74765	256	.93142	13,2	.0736	1,5
1.670	2.56196	275	2.75021	256	0.93155	13,2	1.0735	1,5
.671	.56471	275	.75277	256	.93168	13,2	.0733	1,5
.672	.56747	276	•75534	257	.93182	13,2	.0732	1,5
.673 .674	.57022 .57298	276 276	.75791 .76048	257 257	.93195	13,1 13,1	.0730	I,5 I,5
		27	ar collegenman					
1.675 .676	2.57574 .57851	276 277	2.76305 .76563	258 258	0.93221	13,1 13,1	1.0727 .0726	I,5 I,5
.677	.58127	277	.76821	258	.93234	13,0	.0724	I,5
.678	. 58404	277	.77079	258	.93260	13,0	.0723	1,5
.679	.58682	277	•77338	259	.93273	13,0	.0721	1,5
1.68o	2.58959	278	2.77596	259	0.93286	13,0	1.0720	1,5
.681	.59237	278	.77856	259	.93299	13,0	.0718	1,5
.682	•59515	278	.78115	260	.93312	12,9	.0717	1,5
.683	•59793 •60072	278 279	.78375 .78635	260 260	.93325	12,9 12,9	.0715	1,5 1,5
1		77	A PARTY OF THE					
1.685 .686	2.60350 .60629	279 279	2.78895	260 261	0.93351	12,9 12,8	1.0712	1,5
.687	.60029	279	.79155 .79416	261	.93364	12,8	.0711	1,5 1,5
.688	.61188	280	.79677	261	.93389	12,8	.0708	1,5
.689	.61468	280	.79938	261	.93402	12,8	.0706	1,5
1.690	2.61748	280		262	0.93415	12,7	1.0705	1,5
.691 .692	.62028	280 281	.80462 .80724	262 262	.93427	12,7	.0703	1,5
693	.62309 .62590	281		263	.93440	12,7 12,7	.0702 .0701	1,5 1,5
.694	.62871	28I	.81249	263	.93453	12,6	.0699	1,5 1,4
1.695	2.63152	282	2.81512	263	0.93478	12,6	1.0698	1,4
.696	63434	282	.81776	263	.93491	12,6	.0696	1,4
.697	.63716	282	82039	264	.93503	12,6	.0695	1,4
.698	.63998 .64280	282 283	.82303 .82567	264 264	.93516	I2,5 I2,5	.0693 .0692	I,4 I,4
1.700	2.64563	283	2.82832	265	0.93541		1.0691	
	migraphic section and an ar-		In makingamayasa (13)			12,5		1,4
Section 1	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	<b>∞ F</b> <sub>0</sub> ′

.701 .702 .703 .704 .703 .704 .705 .706 .707 .708 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .719 .720 .721 .722 .723 .724 .722 .723 .724 .727 .728 .729 .727 .728 .729 .731 .732 .733 .734 .733 .734 .733 .734 .735 .736 .737 .738	2.64563 .64846 .65129 .65413 .65697 2.65981 .66265 .66550 .66834 .67119 2.67405 .67690 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70561 .70550 .71139	5 283 283 283 284 284 285 285 285 285 285 285 286 286 286 287 287 287 287 287 287 287 287 287 288 288	2.82832 .83096 .83361 .83627 .83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450 .88450 .88451 .88450 .88450 .88450 .88450 .88450	265 265 265 265 266 266 267 267 267 267 268 268 268 269 269 270 270 270 271 271 271	0.93541 .93553 .93593 .93593 .93591 0.93603 .93615 .93640 .93652 0.93665 .93677 .93689 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93798 .93798	ω F <sub>0</sub> 12,5 12,5 12,5 12,4 12,4 12,4 12,3 12,3 12,3 12,2 12,2 12,2 12,2 12,2	1.0691 .0689 .0688 .0686 .0685 .0685 .0685 .0682 .0581 .0679 .0678 1.0676 .0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664	I, I, I, I, I, I, I, I, I, I, I, I, I, I
.701 .702 .703 .704 .703 .704 .705 .706 .707 .708 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .719 .720 .721 .722 .723 .724 .722 .723 .724 .727 .728 .729 .727 .728 .729 .731 .732 .733 .734 .733 .734 .733 .734 .735 .736 .737 .738	.64846 .65129 .65413 .65697 2.65981 .66265 .66550 .66834 .67119 2.67405 .67690 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	5 283 283 283 3 284 284 285 285 285 285 285 285 286 286 286 287 287 287 287 287 287 287 287 288 288	.83096 .83361 .83627 .83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86205 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450	255 265 265 266 266 267 267 267 268 268 268 269 269 270 270 271 271	.93553 .93503 .93578 .93591 0.93603 .93615 .93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93774 0.93786 .93798 .93798	12,5 12,5 12,4 12,4 12,4 12,3 12,3 12,3 12,3 12,2 12,2 12,2 12,2	.0689 .0588 .0685 .0685 .0685 .0685 .0683 .0582 .0581 .0679 .0678 .0675 .0674 .0672 .0671 .0669 .0668 .0667 .0665 .0664 .0663 .0661	I, I, I, I, I, I, I, I, I, I, I, I, I, I
.701 .702 .703 .704 .703 .704 .705 .706 .707 .708 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .719 .720 .721 .722 .723 .724 .722 .723 .724 .727 .728 .729 .727 .728 .729 .731 .732 .733 .734 .733 .734 .733 .734 .735 .736 .737 .738	.64846 .65129 .65413 .65697 2.65981 .66265 .66550 .66834 .67119 2.67405 .67690 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	5 283 283 283 3 284 284 285 285 285 285 285 285 286 286 286 287 287 287 287 287 287 287 287 288 288	.83361 .83627 .83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450 .88521 .88992	255 265 266 266 267 267 267 268 268 268 269 269 270 270 270 271 271	.93553 .93503 .93578 .93591 0.93603 .93615 .93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93774 0.93786 .93798 .93798	12,5 12,5 12,4 12,4 12,4 12,3 12,3 12,3 12,3 12,2 12,2 12,2 12,2	.0588 .0686 .0685 .0685 .0685 .0682 .0581 .0679 .0678 .0675 .0674 .0672 .0671 .0669 .0668 .0667 .0665 .0665 .0661 .0660 .0668	I, I, I, I, I, I, I, I, I, I, I, I, I, I
.702 .703 .704 1.705 .706 .707 .708 .709 1.710 .711 .712 .713 .714 1.715 .716 .717 .718 .719 1.720 .721 .721 .723 .724 1.725 .727 .728 .729 1.730 .727 .728 .729 1.730 .731 .732 .733 .734 1.735 .736 .737 .738	.65413 .65697 2.65981 .66265 .66550 .66834 .67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	283 284 284 284 285 285 285 285 285 285 286 286 286 286 287 287 287 287 288 287 288 288	.83361 .83627 .83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450 .88521 .88992	265 266 266 267 267 267 267 268 268 268 269 269 270 270 270 271 271	.93503 .93578 .93591 0.93603 .93615 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774	12,5 12,4 12,4 12,4 12,3 12,3 12,3 12,3 12,2 12,2 12,2 12,2	.0686 .0685 I.0683 .0582 .0581 .0679 .0678 I.0676 .0675 .0674 .0672 .0671 I.0669 .0668 .0667 .0665 .0664 II.0663 .0661 .0660	I, I, I, I, I, I, I, I, I, I, I, I, I, I
.704  1.705 2.706 .707 .708 .709  1.710 2.711 .712 .713 .714  1.715 .716 .717 .718 .719  1.720 .721 .722 .723 .724  1.725 .728 .729  1.730 .731 .732 .733 .734  1.735 .734  1.735 .736 .737 .738	.65697  2.65981 .66265 .66550 .66834 .67119  2.67405 .67690 .67976 .68262 .68549  2.68836 .69123 .69410 .69697 .69985  2.70273 .70561 .70850 .71139	7 384 284 285 285 285 285 285 285 285 286 286 286 286 287 287 287 287 287 287 288 288	.83627 .83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86295 .86563 2.86832 .87101 .87370 .87640 .87910	256 256 257 267 267 268 268 268 269 269 270 270 271 271	.93578 .93591 0.93603 .93515 .93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93788 .93798	12,4 12,4 12,4 12,3 12,3 12,3 12,3 12,2 12,2 12,2 12,2	.0685 1.0683 .0582 .0581 .0679 .0678 1.0676 .0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0660 .0668	I, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
.704  I.705 2 .706 .707 .708 .709  I.710 2 .711 .712 .713 .714  I.715 2 .716 .717 .718 .719  I.720 2 .721 .722 .723 .724  I.725 2 .726 .727 .728 .729  I.730 2 .731 .732 .733 .734  I.735 2 .736 .737 .738	.65697  2.65981 .66265 .66550 .66834 .67119  2.67405 .67690 .67976 .68262 .68549  2.68836 .69123 .69410 .69697 .69985  2.70273 .70561 .70850 .71139	7 384 284 284 285 285 285 285 285 285 286 286 286 286 287 287 287 287 287 287 288 288	.83892 2.84158 .84424 .84690 .84957 .85224 2.85491 .85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450 .88721 .88992	256 256 257 267 267 268 268 268 269 269 270 270 271 271	.93591 0.93603 .93615 .93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93798 .93798 .93810 .93822	12,4 12,4 12,4 12,3 12,3 12,3 12,2 12,2 12,2 12,2 12,1 12,1 12,1 12,1 12,1 12,1 12,0 12,0 12,0 12,0 12,0	.0685 1.0683 .0582 .0581 .0679 .0678 1.0676 .0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0660 .0668	132   132   132   132   132   132   132   132   132   132   132   132   132   132   132   132
.706 .707 .708 .709 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .721 .722 .723 .724 .722 .723 .724 .725 .726 .727 .728 .729 .729 .731 .730 .731 .732 .733 .734 .733 .734	.66265 .66550 .66834 .67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	55 284 285 285 285 285 56 286 286 286 286 287 287 287 287 287 288 287 287 287 288 287 288 287 288 287 288 289 289	.84424 .84690 .84957 .85224 2.85491 .85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910	266 267 267 267 268 268 268 269 269 269 270 270 270 271 271 271	.93615 .93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93798	12,4 12,3 12,3 12,3 12,2 12,2 12,2 12,2 12,2	.0582 .0581 .0679 .0678 1.0676 .0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661	196   196
.706 .707 .708 .709 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .721 .722 .723 .724 .722 .723 .724 .725 .726 .727 .728 .729 .729 .731 .730 .731 .732 .733 .734 .733 .734 .735 .736 .737 .738	.66265 .66550 .66834 .67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	55 284 285 285 285 285 56 286 286 286 286 287 287 287 287 287 288 287 287 287 288 287 288 287 288 287 288 289 289	.84424 .84690 .84957 .85224 2.85491 .85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910	267 267 267 268 268 268 269 269 269 270 270 270 271 271	.93615 .93628 .93640 .93652 0.93665 .93677 .93689 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798	12,4 12,3 12,3 12,3 12,2 12,2 12,2 12,2 12,2	.0581 .0679 .0678 I.0676 .0675 .0674 .0672 .0671 I.0669 .0668 .0667 .0665 .0664 I.0663 .0661 .0660	196   196
.707 .708 .709 .709 .711 .712 .713 .714 .715 .716 .717 .718 .719 .719 .721 .722 .723 .724 .722 .723 .724 .729 .727 .728 .729 .727 .728 .729 .731 .733 .734 .733 .734 .735 .736 .737 .738	.66550 .66834 .67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69697 .70561 .70561 .70850 .71139	285 285 285 285 285 286 286 286 286 287 287 287 287 287 287 288 288 288 288	.84690 .84957 .85224 .85491 .85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88521 .88992	267 267 268 268 268 269 269 270 270 270 271 271	.93628 .93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93788	12,3 12,3 12,3 12,3 12,2 12,2 12,2 12,2	.0679 .0678 I.0676 .0675 .0674 .0672 .0671 I.0669 .0668 .0667 .0665 .0664 I.0663 .0661 .0660	192 193 194 194 194 194 194 194 194 194 194 194
.708 .709 1.710 2 .711 .712 .713 .714 1.715 2 .716 .717 .718 .719 1.720 2 .721 .722 .723 .724 1.725 2 .726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.66834 .67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70561 .70850	4 285 285 285 286 286 286 286 287 287 287 287 287 288 288 288 288 288	.84957 .85224 2.85491 .85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .89910 2.88180 .88450 .88721 .88992	267 267 268 268 268 269 269 270 270 270 271 271	.93640 .93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93810	12,3 12,3 12,2 12,2 12,2 12,2 12,2 12,1 12,1	.0678  1.0676 .0675 .0674 .0672 .0671  1.0669 .0668 .0667 .0665 .0664  1.0663 .0661 .0660 .0658	150   150
.709 1.710 2.711 .712 .713 .714 1.715 2.716 .717 .718 .719 1.720 .721 .722 .723 .724 1.725 2.726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.67119 2.67405 .67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	285 285 285 286 286 286 287 287 287 287 287 287 288 288 288 288	.85224 2.85491 .85759 .86227 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88450 .88721 .88992	267 268 268 268 269 269 269 270 270 270 271 271 271	.93652 0.93665 .93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,3 12,3 12,2 12,2 12,2 12,2 12,1 12,1 12,1 12,1 12,0 12,0 12,0 12,0	.0678  1.0676 .0675 .0674 .0672 .0671  1.0669 .0668 .0667 .0665 .0664  1.0663 .0661 .0660 .0658	134   136   136   136   136   136   136   136   136   136   136   136   136   136   136   136
.711 .712 .713 .714 I.715 .716 .717 .718 .719 I.720 .721 .722 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70561 .70850	286. 286 286 286 287 287 287 287 288 288 288 288 289 289 289	.85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88521 .88992	268 268 269 269 269 270 270 270 271 271 271	.93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,2 12,2 12,2 12,2 12,2 12,1 12,1 12,1	.0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661 .0660	194 196 194 194 194 196 196 194 194
.711 .712 .713 .714 I.715 .716 .717 .718 .719 I.720 .721 .722 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.67690 .67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70561 .70850	286. 286 286 286 287 287 287 287 288 288 288 288 289 289 289	.85759 .86027 .86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88521 .88992	268 268 269 269 269 270 270 270 271 271 271	.93677 .93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,2 12,2 12,2 12,2 12,2 12,1 12,1 12,1	.0675 .0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661 .0660	194 196 194 194 194 196 196 194 194
.712 .713 .714 1.715 .716 .717 .718 .719 1.720 .721 .722 .723 .724 1.725 .726 .727 .728 .729 1.730 .731 .732 .733 .734 1.735 .735 .736 .737 .738	.67976 .68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	56 286 286 287 287 287 287 288 288 288 288 289 289 289	.86027 .86295 .86563 2.86832 .87101 .87370 .87640 .89910 2.88180 .88450 .88721 .88992	268 269 269 269 270 270 270 271 271 271	.93689 .93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93810 .93810	12,2 12,2 12,2 12,2 12,1 12,1 12,1 12,1	.0674 .0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661 .0660	192 194 194 194 194 194 194 194 194 194
.713 .714 I.715 .716 .717 .718 .719 I.720 .721 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .734 I.735 .736 .737 .738	.68262 .68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	2 286 2 287 5 287 5 287 6 287 7 288 5 288 6 288 6 288 6 289 6 289	.86295 .86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88721 .88992	268 269 269 269 270 270 270 271 271 271	.93701 .93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,2 12,2 12,2 12,1 12,1 12,1 12,1 12,0 12,0	.0672 .0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661 .0660	1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2 1 <sub>9</sub> 2
.714  1.715 2 .716 .717 .718 .719  1.720 2 .721 .722 .723 .724  1.725 2 .726 .727 .728 .729  1.730 2 .731 .732 .733 .734  1.735 2 .736 .737 .738	.68549 2.68836 .69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	287 287 287 287 287 287 288 288 288 288	.86563 2.86832 .87101 .87370 .87640 .87910 2.88180 .88450 .88721 .88992	269 269 269 270 270 270 271 271 271	.93714 0.93726 .93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,2 12,1 12,1 12,1 12,1 12,0 12,0 12,0	.0671 1.0669 .0668 .0667 .0665 .0664 1.0663 .0661 .0660 .0658	1,2 1,2 1,2 1,2 1,2 1,2 1,2 1,2
.716 .717 .718 .719 .719 .720 .721 .723 .724 .726 .727 .728 .729 .728 .729 .731 .732 .733 .734 .733 .734	.69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	287 287 287 288 288 288 288 288 288 289 289	.87101 .87370 .87640 .87910 2.88180 .88450 .88721 .88992	269 269 270 270 270 271 271 271	.93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,1 12,1 12,1 12,1 12,1 12,0 12,0 12,0	.0668 .0667 .0665 .0664 I.0663 .0661 .0660	I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2
.716 .717 .718 .719 .719 .720 .721 .723 .724 .726 .727 .728 .729 .728 .729 .731 .732 .733 .734 .733 .734	.69123 .69410 .69697 .69985 2.70273 .70561 .70850 .71139	287 287 287 288 288 288 288 288 288 289 289	.87101 .87370 .87640 .87910 2.88180 .88450 .88721 .88992	269 269 270 270 270 271 271 271	.93738 .93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,1 12,1 12,1 12,1 12,1 12,0 12,0 12,0	.0668 .0667 .0665 .0664 I.0663 .0661 .0660	I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2 I <sub>3</sub> 2
.717 .718 .719 1.720 2 .721 .722 .723 .724 1.725 2 .726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.69410 .69697 .69985 2.70273 .70561 .70850 .71139	287 7 288 5 288 288 2 288 0 289 0 289	.87370 .87640 .87910 2.88180 .88450 .88721 .88992	269 270 270 270 271 271 271	.93750 .93762 .93774 0.93786 .93798 .93810 .93822	12,1 12,1 12,1 12,0 12,0 12,0 12,0	.0667 .0665 .0664 1.0663 .0661 .0660	I,2 I,2 I,2 I,2 I,2 I,2 I,2
.718 .719 1.720 2 .721 .722 .723 .724 1.725 2 .726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.69697 .69985 2.70273 .70561 .70850 .71139	7 288 5 288 3 288 1 288 0 289 0 289	.87640 .87910 2.88180 .88450 .88721 .88992	270 270 270 271 271 271	.93762 .93774 0.93786 .93798 .93810 .93822	12,1 12,1 12,0 12,0 12,0 12,0	.0665 .0664 1.0663 .0661 .0660	I,2 I,2 I,2 I,2 I,2 I,2
.719 1.720 2 .721 .722 .723 .724 1.725 2 .726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 .736 .737 .738	.69985 2.70273 .70561 .70850 .71139	288 288 288 289 289 289	.87910 2.88180 .88450 .88721 .88992	270 270 271 271 271	•93774 •93786 •93798 •93810 •93822	12,1 12,0 12,0 12,0 12,0	.0664 1.0663 .0661 .0660 .0658	I,2 I,2 I,2 I,2
.721 .722 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.70561 .70850 .71139	288 289 289	.88450 .88721 .88992	271 271 271	.93798 .93810 .93822	12,0 12,0 12,0	.0661 .0660 .0658	I,2 I,2 I,2
.721 .722 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.70561 .70850 .71139	288 289 289	.88450 .88721 .88992	271 271 271	.93798 .93810 .93822	12,0 12,0 12,0	.0661 .0660 .0658	I,2 I,2 I,2
.722 .723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.70850 .71139	289	.88721 .88992	27 I 27 I	.93810 .93822	12,0 12,0	.0660 .0658	I,4 I,4
.723 .724 I.725 .726 .727 .728 .729 I.730 .731 .732 .733 .734 I.735 .736 .737 .738	.71139	289	.88992	271	.93822	12,0	.0658	Ι,4
.724  I.725 2 .726 .727 .728 .729  I.730 2 .731 .732 .733 .734  I.735 2 .736 .737 .738								
1.725 2 .726 .727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738					1 93034 1	12,0	.0657	Ι,4
.726 .727 .728 .729 .730 .731 .732 .733 .734 .735 .736 .737 .738		-	2.89535	070	0.93846		1.0656	
.727 .728 .729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	2.71717			272	.93858	11,9		I,,
.728 .729 I.730 2 .731 .732 .733 .734 I.735 2 .736 .737 .738	.72007		.89807	272		11,9	.0654	I,4
.729 1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.72297		.90079	272	.93870	11,9	.0653	Ι,
1.730 2 .731 .732 .733 .734 1.735 2 .736 .737 .738	.72587 .72878		.90351 .90624	273 273	.93882 .93894	11,9	.0652	I,
.731 .732 .733 .734 1.735 .736 .737 .738								
.732 .733 .734 1.735 .736 .737 .738	2.73168		2.90897	273	0.93905	11,8	1.0649	1,
.733 .734 1.735 .736 .737 .738	.73460	291	.91170	273	.93917	11,8	.0648	Ι,
.734 1.735 2 .736 .737 .738	.7375I	1 291	.91444	274	.93929	11,8	<b>.0</b> 646	I,
1.735 2 .736 .737 .738	.74042	2 292	.91718	274	93941	11,8	.0645	Ι,
.736 .737 .738	.74334	1 292	.91992	274	•93953	11,7	.0644	I,
.736 .737 .738	2.74626		2.92266	275	0.93964	11,7	1.0642	· I,
.738	.74919		.92541	275	93976	11,7	.0641	I,
	.75211	293	.92816	275	.93988	11,7	.0540	I,
	.75504	1 293	.93092	276	•93999	11,6	.0638	1,3
705	.75798	3 293	.93367	276	.94011	11,6	.0637	I,
	2.76091		2.93643	276	0.94023	11,6	1.0536	1,3
	.76385	294	93919	276	94034	11,6	.0634	Ι,
.742	.76679	294	.94196	277	.94046	11,6	.0533	Ι,
743	.76973	3 294	•94473	277	.94057	11,5	.0632	Ι,
.744	.77268	3 295	.94750	277	.94069	11,5	.0631	1,
1.745 2		3 295	2.95027	278	0.94080	11,5	1.0629	Ι,
	2.77563		95305	278	•94092	11,5	.0628	Ι,
			.95583	278	.94103	11,4	.0627	I,
	2.77503 .77858 .78153		.95861	278	.94115	11,4	.0625	Ι,
.749	.77858	3 296	.96140	279	.94126	11,4	.0624	Ι,
1.750 2	.77858 .78153	296	190140	l	0.94138	11,4	1.0623	I,
u t	.77858 .78153 .78449	296 296 296	2.96419	279	0.94100	11,4	- 1	

.763	и	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u		
751		******								
752   79635   297   .06078   280   .94176   11,3   .0620   1.3     753   75932   297   .97537   280   .94172   11,3   .0618   1.3     1.755   2.86527   298   2.97818   281   .94205   11,3   .0616   1.3     1.756   8.8625   298   .9808   281   .94205   11,3   .0616   1.3     757   .81123   298   .98379   281   .94205   11,3   .0615   1.3     758   .81422   299   .98661   281   .94228   11,2   .0614   1.3     758   .81422   299   .98661   281   .94228   11,2   .0614   1.3     1.760   2.82020   299   2.99224   282   .94230   11,2   .0613   1.3     1.761   .83319   300   .99506   282   .94251   11,1   .0606   1.3     761   .83319   300   .99506   283   .94261   11,1   .0608   1.3     763   .83619   300   .30059   283   .94284   11,1   .0606   1.2     764   .83219   300   .00022   284   .94317   11,0   .0605   1.2     1.765   2.83519   301   .00022   284   .94317   11,0   .0605   1.2     766   .83830   301   .00022   284   .94317   11,0   .0603   1.2     767   .81121   301   .0120   284   .94330   11,0   .0603   1.2     768   .84422   301   .01400   284   .94330   11,0   .0603   1.2     768   .8422   301   .01400   284   .94330   11,0   .0603   1.2     769   .84724   302   .01774   285   .94350   11,0   .0509   1.2     1.770   2.85021   303   .02690   285   .94350   11,0   .0509   1.2     1.771   .85328   302   .02344   285   .94372   10,0   .0599   1.2     1.772   .85631   303   .02690   286   .94381   10,0   .0599   1.2     1.773   .85933   303   .02916   286   .94381   10,0   .0599   1.2     1.775   2.85640   303   .30488   287   .944470   10,8   .0586   1.2     777   .87147   304   .04062   287   .944470   10,8   .0580   1.2     778   .88366   305   .04637   288   .94450   10,9   .0596   1.2     779   .87756   305   .04637   288   .94450   10,9   .0596   1.2     780   2.88661   305   3.04982   288   .94480   10,9   .0596   1.2     780   2.88661   305   3.04982   289   .94451   10,6   .0586   1.2     781   782   .88661   306   .05606   290   .94531   10,7   .0581   1.2     781   782   .88661   306   .05606   29										
753   79032   297   .07257   280   .94172   11,3   .0616   1.3   .754   .80229   298   .97537   280   .94183   11,3   .0616   1.3   .755   2.86527   298   .98098   281   .94205   11,3   .0616   1.3   .756   .80825   298   .98098   281   .94217   11,2   .0614   1.3   .757   .81123   298   .98397   281   .94217   11,2   .0614   1.3   .758   .758   .81422   299   .98661   281   .94228   11,2   .0613   1.3   .759   .81721   299   .98942   282   .94230   11,2   .0611   1.3   .751   .751   .751   .752   .83210   300   .99780   283   .94273   11,1   .0606   1.3   .761   .83210   300   .99780   283   .94293   11,1   .0606   1.3   .762   .82610   300   .99780   283   .94293   11,1   .0606   1.3   .764   .83210   300   .00355   283   .94295   11,1   .0606   1.3   .764   .83210   300   .00325   283   .94295   11,1   .0606   1.3   .764   .83210   300   .00325   284   .94317   11,0   .0606   1.2   .766   .83820   301   .3.06038   284   .94317   11,0   .0603   1.2   .767   .84121   301   .01206   284   .94319   11,0   .0601   1.2   .768   .8422   301   .01490   284   .94339   11,0   .0601   1.2   .769   .84724   302   .01774   285   .94351   11,0   .0600   1.2   .771   .85328   302   .02344   285   .94372   10,0   .0599   1.2   .772   .85631   303   .02306   286   .94394   10,0   .0594   1.4   .777   .85338   303   .02306   286   .94394   10,0   .0594   1.4   .777   .85338   303   .02306   286   .94394   10,0   .0594   1.4   .777   .85438   303   .02306   286   .94394   10,0   .0596   1.2   .777   .85438   .304   .04622   287   .94437   10,8   .0580   1.2   .777   .85438   .304   .04622   287   .94437   10,8   .0580   1.2   .777   .85438   .304   .04622   .287   .94437   10,8   .0588   1.3   .778   .778   .88366   .305   .304925   .288   .94480   10,7   .0581   1.2   .779   .778   .					279					
1.754					280					
1.755   2.80527   208   2.97818   281   0.94194   11.3   1.0616   1.3   1.755   2.80527   208   0.9408   281   0.94205   11.3   0.0615   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   1.3   0.515   0.515   1.3   0.515   0.5										
756	•754	.80229	298	•97537	200	.94163	11,3	.0018		1,3
757   .81123   298   .98379   .881   .94217   .11,2   .0614   .1,3   .759   .81721   299   .98042   .282   .94239   .11,2   .0613   .1,3   .759   .81721   299   .98042   .282   .94239   .11,2   .0613   .1,3   .759   .81721   .299   .98042   .282   .94239   .11,2   .0613   .1,3   .751   .82319   .300   .99580   .282   .94250   .11,1   .0606   .1,3   .762   .82619   .300   .99580   .283   .94251   .11,1   .0606   .1,3   .763   .82019   .300   .300072   .283   .94284   .11,1   .0606   .1,2   .764   .83219   .300   .300535   .283   .94295   .11,1   .0606   .1,2   .766   .83220   .301   .00022   .284   .94317   .11,0   .0603   .1,2   .766   .88320   .301   .00022   .284   .94317   .11,0   .0603   .1,2   .768   .84422   .301   .01206   .284   .94328   .10,0   .0601   .1,2   .768   .84422   .301   .01206   .284   .94339   .11,0   .0603   .1,2   .768   .84422   .301   .01206   .284   .94339   .11,0   .0600   .1,2   .769   .84724   .302   .01774   .285   .94350   .11,0   .0508   .1,2   .771   .85328   .302   .02344   .285   .94350   .11,0   .0508   .1,2   .771   .85328   .302   .02344   .285   .94372   .10,0   .0506   .1,2   .772   .85631   .303   .02630   .286   .94394   .10,0   .0506   .1,2   .773   .85633   .303   .02630   .286   .94394   .10,0   .0509   .1,2   .773   .85633   .303   .03202   .286   .94394   .10,0   .0509   .1,2   .773   .85634   .304   .03775   .287   .94445   .10,0   .05593   .1,2   .776   .86844   .304   .03775   .287   .94445   .10,0   .0509   .1,2   .778   .87452   .304   .04062   .287   .94437   .10,8   .0580   .1,2   .778   .87452   .304   .04062   .287   .94448   .0,8   .0586   .1,2   .778   .87452   .304   .04062   .287   .94445   .0,8   .0586   .1,2   .778   .88661   .305   .05701   .289   .94448   .0,6   .0568   .1,2   .778   .88661   .305   .05701   .289   .94448   .0,7   .0583   .1,2   .778   .88661   .305   .05701   .289   .94448   .0,7   .0583   .1,2   .778   .88661   .305   .05701   .289   .94448   .0,6   .0577   .1,2   .788   .99806   .307   .06990   .904470   .0,6   .0,5   .1,2		2.80527	298	2.97818	281					1,3
1.758			298							
1.759	-757	.81123							n di na	1,3
1.760   2.82020   299   2.99224   282   0.94250   11,2   1.0610   1.3	.758				281					
761	•759	.81721	299	.98942	202	.94239	11,2	1100.	1	1,3
. 762	1.760		299		282				4	1,3
763	.761				282					
1,764   82210   300   .00355   283   .94295   11,1   .0605   1,2										1,3
1.765	.763									
7,766	.764	.83219	300	.00355	283	.94295	II,I	.0005		1,2
7,766	1.765	2.83519	301	3.00638		0.94306	11,1			1,2
.768         .84422         301         .01490         284         .94339         11,0         .0600         1,2           .769         .84724         302         .01774         285         .94350         11,0         .0599         1,2           1.770         .856026         302         3.02059         285         .94372         10,9         .0596         1,2           .771         .85428         302         .02344         285         .94372         10,9         .0595         1,2           .773         .85031         303         .02630         286         .94394         10,9         .0594         1,2           .774         .86237         303         .03202         286         .94495         10,9         .0594         1,2           .776         .86844         304         .03775         287         .94426         10,8         .0590         1,2           .776         .86844         304         .03775         287         .94426         10,8         .0590         1,2           .777         .87147         304         .04062         287         .94426         10,8         .0588         1,2           .778         .87452 <td>.766</td> <td>.83820</td> <td>301</td> <td>.00922</td> <td></td> <td>.94317</td> <td>11,0</td> <td></td> <td></td> <td>1,2</td>	.766	.83820	301	.00922		.94317	11,0			1,2
1.769	.767	.84121	301			.94328				1,2
1.770       2.85026       302       3.02059       285       0.94361       11,0       1.0598       1.2         .771       .85328       302       .023444       285       .94372       10,9       .0506       1,2         .772       .85631       303       .02916       286       .94394       10,9       .0595       1,2         .774       .86237       303       .03202       286       .94394       10,9       .0593       1,2         1.775       2.86540       303       3.03488       287       .0,94416       10,9       1.0591       1,2         .776       .86844       304       .03775       287       .94426       10,8       .0590       1,2         .777       .87147       304       .04062       287       .94437       10,8       .0580       1,2         .777       .87447       304       .04349       287       .94448       10,8       .0580       1,2         .779       .87756       305       .04637       288       .94470       10,8       1.0585       1,2         .781       .88366       305       .05213       288       .94490       10,7       .0583       1,2	.768	.84422	301	.01490						
1.771	.769	.84724	302	.01774	285	•94350	11,0	.0599	E .	1,2
771	1.770	2.85026	302	3.02059	285	0.94361	11,0	1.0598		1,2
1,772		.85328	302	.02344	285	.94372	10,9	.0596	- L	1,2
1.773		.85631	303			.94383	10,9	.0595		1,2
1.775       2.86540       303       3.03488       287       0.94416       10.9       1.0591       1.2         .776       .86844       304       .03775       287       .94426       10.8       .0590       1.2         .777       .87147       304       .04062       287       .94437       10.8       .0580       1.2         .778       .87452       304       .04349       287       .94448       10.8       .0588       1.2         .779       .87756       305       .04637       288       .94459       10.8       .0587       1.2         1.780       2.88661       305       .05213       288       .94470       10.8       1.0585       1.2         .781       .88366       305       .05213       288       .94480       10.7       .0583       1.2         .782       .88671       306       .05501       289       .944921       10.7       .0583       1.2         .783       .88977       306       .05790       289       .94523       10.7       1.0579       1.2         .784       .89283       306       306369       290       .94523       10.7       1.0579       1.2		.85933	303	.02916	286	•94394		.0594		1,2
.776         .86844         304         .03775         287         .94426         10,8         .0590         1,2           .777         .87147         304         .04062         287         .94437         10,8         .0580         1,2           .778         .87452         304         .04349         287         .94448         10,8         .0588         1,2           .779         .87756         305         .04637         288         .94489         10,8         .0587         1,2           .780         .288061         305         .04637         288         .94449         10,8         .0585         1,2           .781         .88366         305         .05213         288         .94480         10,7         .0584         1,2           .782         .88671         306         .05501         289         .94491         10,7         .0582         1,2           .783         .88977         306         .05790         289         .94502         10,7         .0582         1,2           .784         .89283         306         3.06369         290         .94523         10,7         1.0579         1,2           .786         .89866 <td>•774</td> <td>.86237</td> <td>303</td> <td>.03202</td> <td>286</td> <td>.94405</td> <td>10,9</td> <td>.0593</td> <td></td> <td>1,2</td>	•774	.86237	303	.03202	286	.94405	10,9	.0593		1,2
.776         .86844         304         .03775         287         .94426         10,8         .0590         1,2           .777         .87147         304         .04349         287         .94437         10,8         .0589         1,2           .778         .87452         304         .04349         287         .94448         10,8         .0588         1,2           .779         .87756         305         .04637         288         .94459         10,8         .0588         1,2           1.780         2.88061         305         .04637         288         .94470         10,8         1.0585         1,2           .781         .88366         305         .05213         288         .94480         10,7         .0584         1,2           .782         .88671         306         .05790         289         .94491         10,7         .0583         1,2           .783         .88977         306         .05790         289         .94513         10,7         .0581         1,2           .784         .89283         306         3.06369         290         0.94523         10,7         1.0579         1,2           .786         .89896	1.775	2.86540	303	3.03488		0.94416	10,9	1.0591		1,2
.777         .87147         304         .04062         287         .94437         10,8         .0589         1,2           .778         .87452         304         .04349         287         .94448         10,8         .0588         1,2           .779         .87756         305         .04637         288         .94459         10,8         .0588         1,2           1.780         2.88061         305         .04637         288         .94459         10,8         1.0585         1,2           .781         .883661         305         .05213         288         .94480         10,7         .0584         1,2           .782         .88671         306         .05501         289         .94491         10,7         .0583         1,2           .783         .88977         306         .05790         289         .94502         10,7         .0582         1,2           .784         .89283         306         3.06369         290         .94523         10,7         1.0579         1,2           .786         .89866         307         .06659         290         .94534         10,6         .0576         1,2           .787         .90202	.776	.86844	304	.03775		.94426		.0590	1	1,2
.779       .87756       305       .04037       288       .94459       10,8       .0587       1,2         1.780       2.88601       305       3.04925       288       0.94470       10,8       1.0585       1,2         .781       .88366       305       .05213       288       .94480       10,7       .0584       1,2         .782       .88671       306       .05501       289       .94491       10,7       .0583       1,2         .783       .88977       306       .05790       289       .94502       10,7       .0582       1,2         .784       .89283       306       .06079       289       .94513       10,7       .0581       1,2         1.785       2.89589       306       3.06369       290       .94523       10,7       1.0579       1,2         .786       .89896       307       .06659       290       .94544       10,6       .0578       1,2         .787       .90202       307       .06949       290       .94544       10,6       .0576       1,2         .788       .90510       307       .07239       291       .94555       10,6       .0576       1,2     <	.777		304	.04062						1,2
.779       .87756       305       .04637       288       .94459       10,8       .0587       1,2         1.780       2.88661       305       3.04925       288       0.94470       10,8       1.0585       1,2         .781       .88366       305       .05213       288       .94480       10,7       .0584       1,2         .782       .88671       306       .05501       289       .94491       10,7       .0583       1,2         .783       .88977       306       .05790       289       .94502       10,7       .0582       1,2         .784       .89283       306       .06079       289       .94513       10,7       .0581       1,2         1.785       2.89589       306       3.06369       290       0.94523       10,7       1.0579       1,2         .786       .89896       307       .06659       290       .94544       10,6       .0578       1,2         .787       .90202       307       .06949       290       .94544       10,6       .0576       1,2         .788       .90510       307       .07239       291       .94555       10,6       .0576       1,2	.778	.87452	304	.04349		.94448				1,2
.781         .88366         305         .05213         288         .94480         10,7         .0584         1,2           .782         .88671         306         .05501         289         .94491         10,7         .0583         1,2           .783         .88977         306         .05790         289         .94502         10,7         .0582         1,2           .784         .89283         306         .06079         289         .94513         10,7         .0581         1,2           1.785         2.89589         306         3.06369         290         0.94523         10,7         1.0579         1,2           .786         .89896         307         .06659         290         .94534         10,6         .0578         1,2           .787         .90202         307         .06949         290         .94544         10,6         .0576         1,2           .788         .90510         307         .07239         291         .94555         10,6         .0576         1,2           .789         .90817         308         .07530         291         .94587         10,5         .0572         1,2           .791         .91433<		.87756	305	.04637	288	•94459	10,8	.0587	H.	1,2
.781       .88366       305       .05213       288       .94480       10,7       .0584       1,2         .782       .88671       306       .05501       289       .94491       10,7       .0583       1,2         .783       .88977       306       .05790       289       .94502       10,7       .0582       1,2         .784       .89283       306       .06079       289       .94513       10,7       1.0579       1,2         1.785       2.89589       306       3.06369       290       0.94523       10,7       1.0579       1,2         .786       .89896       307       .06659       290       .94534       10,6       .0578       1,2         .787       .90202       307       .06659       290       .94544       10,6       .0577       1,2         .788       .90510       307       .07239       291       .94565       10,6       .0576       1,2         .789       .90817       308       .07530       291       .94565       10,6       .0572       1,2         .791       .91433       308       .08112       291       .94567       10,5       .0572       1,2 <td>1.780</td> <td>2.88061</td> <td>305</td> <td>3.04925</td> <td></td> <td>0.94470</td> <td>10,8</td> <td></td> <td></td> <td>1,2</td>	1.780	2.88061	305	3.04925		0.94470	10,8			1,2
.782       .88671       306       .05501       289       .94491       10,7       .0583       1,2         .783       .88977       306       .05790       289       .94502       10,7       .0582       1,2         .784       .89283       306       .06079       289       .94513       10,7       .0581       1,2         1.785       2.89589       306       3.06369       290       0.94523       10,7       1.0579       1,2         .786       .89896       307       .06659       290       .94534       10,6       .0578       1,2         .787       .90202       307       .06949       290       .94555       10,6       .0576       1,2         .788       .90510       307       .07239       291       .94555       10,6       .0576       1,2         .789       .90817       308       .07530       291       .94565       10,6       .0576       1,2         .791       .91433       308       .08112       291       .94587       10,5       .0572       1,2         .792       .91741       308       .08403       292       .94507       10,5       .0570       1,2	.781	.88366			288			.0584	Al Minaria	1,2
.783       .88977       306       .05790       289       .94502       10,7       .0582       1,2         .784       .89283       306       .06079       289       .94513       10,7       .0581       1,2         1.785       2.89589       306       3.06369       290       0.94523       10,7       1.0579       1,2         .786       .89896       307       .06659       290       .94534       10,6       .0578       1,2         .787       .90202       307       .06949       290       .94544       10,6       .0576       1,2         .788       .90510       307       .07239       291       .94555       10,6       .0576       1,2         .789       .90817       308       .07530       291       .94565       10,6       .0576       1,2         .790       .91125       308       3.07821       291       .94597       10,5       .0572       1,2         .791       .91433       308       .08112       291       .94597       10,5       .0571       1,2         .792       .91741       308       .08493       292       .94597       10,5       .0570       1,2 <td>.782</td> <td>.88671</td> <td></td> <td>.05501</td> <td>289</td> <td>.94491</td> <td>10,7</td> <td>.0583</td> <td></td> <td>1,2</td>	.782	.88671		.05501	289	.94491	10,7	.0583		1,2
.784         .89283         306         .06079         289         .94513         10,7         .0581         1,2           1.785         2.89589         306         3.06369         290         0.94523         10,7         1.0579         1,2           .786         .89866         307         .06659         290         .94534         10,6         .0578         1,2           .787         .90202         307         .06949         290         .94544         10,6         .0577         1,2           .788         .90510         307         .07239         291         .94555         10,6         .0576         1,2           .789         .90817         308         .07530         291         .94565         10,6         .0576         1,2           1.790         2.91125         308         3.07821         291         .94576         10,6         1.0574         1,2           .791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08493         292         .94597         10,5         .0570         1,2           .794         .92	.783	.88977		.05790		.94502	10,7	.0582	الله الله الله الله الله الله الله الله	1,2
.786         .89896         307         .06659         290         .94534         10,6         .0578         1,2           .787         .90202         307         .06949         290         .94544         10,6         .0577         1,2           .788         .90510         307         .07239         291         .94555         10,6         .0576         1,2           .789         .90817         308         .07530         291         .94565         10,6         .0576         1,2           1.790         2.91125         308         3.07821         291         .94576         10,6         1.0574         1,2           .791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08403         292         .94587         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1,3           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           .795         2.92667<	.784	.89283	306	.06079	289	.94513	10,7	.0581		1,2
.786         .89896         307         .06659         290         .94534         10,6         .0578         1,2           .787         .90202         307         .06949         290         .94544         10,6         .0577         1,2           .788         .90510         307         .07239         291         .94555         10,6         .0576         1,2           .789         .90817         308         .07530         291         .94565         10,6         .0576         1,2           1.790         2.91125         308         3.07821         291         .94576         10,6         1.0574         1,2           .791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08403         292         .94587         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1,3           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           .795         2.92667<	1.785	2.80580	306	3.06360	290	0.94523	10,7	1.0579	m diameter	1,2
.787         .90202         307         .06949         290         .94544         10,6         .0577         1,2           .788         .90510         307         .07239         291         .94555         10,6         .0576         1,2           .789         .90817         308         .07530         291         .94565         10,6         .0576         1,2           1.790         2.91125         308         3.07821         291         0.94576         10,6         1.0574         1,2           .791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08403         292         .94597         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94688         10,5         .0570         1,2           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           .795         .929667         309         3.09280         293         .94629         10,5         1.0568         1,2           .796         .929	. 786			.06659						1,2
.788         .90510         307         .07239         291         .94555         10,6         .0576         1.2           .789         .90817         308         .07530         291         .94565         10,6         .0576         1.2           1.790         2.91125         308         3.07821         291         0.94576         10,6         1.0574         1.2           .791         .91433         308         .08112         291         .94587         10,5         .0572         1.2           .792         .91741         308         .08403         292         .94597         10,5         .0571         1.2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1.4           .794         .92358         309         .08988         292         .94618         10,5         .0569         1.2           1.795         2.92667         309         3.09280         293         0.94629         10,5         1.0568         1.2           .796         .92977         310         .09573         293         .94639         10,4         .0566         1.2           .798         .9	.787		307		290			.0577		1,2
1.790       2.91125       308       3.07821       291       0.94576       10,6       1.0574       1,2         .791       .91433       308       .08112       291       .94587       10,5       .0572       1,2         .792       .91741       308       .08403       292       .94597       10,5       .0571       1,2         .793       .92049       309       .08695       292       .94608       10,5       .0570       1,2         .794       .92358       309       .08988       292       .94618       10,5       .0569       1,2         1.795       2.92667       309       3.09280       293       0.94629       10,5       1.0568       1,2         .796       .92977       310       .09573       293       .94639       10,4       .0566       1,2         .797       .93287       310       .09866       293       .94649       10,4       .0565       1,2         .798       .93597       310       .10453       294       .94660       10,4       .0564       1,2         .799       .93907       310       .10453       294       .94670       10,4       .0563       1,2	. 788	.90510	307	.07239	291	•94555				1,2
.791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08403         292         .94597         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1,2           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           1.795         2.92667         309         3.09280         293         0.94629         10,5         1.0568         1,2           .796         .92977         310         .09573         293         .94639         10,4         .0566         1,2           .797         .93287         310         .09866         293         .94649         10,4         .0565         1,2           .798         .93597         310         .10453         294         .94660         10,4         .0564         1,2           .799         .93907         310         .10453         294         .94670         10,4         .0563         1,2           1.800         2.9421	.789	.90817	308	.07530	291	.94565	10,6	.0575		1,2
.791         .91433         308         .08112         291         .94587         10,5         .0572         1,2           .792         .91741         308         .08403         292         .94597         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1,2           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           1.795         2.92667         309         3.09280         293         0.94629         10,5         1.0568         1,2           .796         .92977         310         .09573         293         .94639         10,4         .0566         1,2           .797         .93287         310         .09866         293         .94649         10,4         .0565         1,2           .798         .93597         310         .10453         294         .94660         10,4         .0564         1,2           .799         .93907         310         .10453         294         .94670         10,4         .0563         1,2           1.800         2.9421	1.700	2.01125	308	3.07821	201	0.94576	10,6	1.0574		1,2
.792         .91741         308         .08403         292         .94597         10,5         .0571         1,2           .793         .92049         309         .08695         292         .94608         10,5         .0570         1,2           .794         .92358         309         .08988         292         .94618         10,5         .0569         1,2           1.795         2.92667         309         3.09280         293         0.94629         10,5         1.0568         1,2           .796         .92977         310         .09573         293         .94639         10,4         .0566         1,2           .797         .93287         310         .09866         293         .94649         10,4         .0565         1,2           .798         .93597         310         .10453         294         .94660         10,4         .0564         1,2           .799         .93907         310         .10453         294         .94670         10,4         .0563         1,2           1.800         2.94217         311         3.10747         294         0.94681         10,4         1.0562         1,2			308							1,2
.793       .92049       309       .08695       292       .94608       10,5       .0570       1,2         .794       .92358       309       .08988       292       .94618       10,5       .0569       1,2         1.795       2.92667       309       3.09280       293       0.94629       10,5       1.0568       1,2         .796       .92977       310       .09573       293       .94639       10,4       .0566       1,2         .797       .93287       310       .09866       293       .94649       10,4       .0565       1,2         .798       .93597       310       .10160       294       .94660       10,4       .0564       1,2         .799       .93907       310       .10453       294       .94670       10,4       .0563       1,2         1.800       2.94217       311       3.10747       294       0.94681       10,4       1.0562       1,2			308	.08403		.04507				1,2
.794     .92358     309     .08988     292     .94618     10,5     .0569     1,2       1.795     2.92667     309     3.09280     293     0.94629     10,5     1.0568     1,2       .796     .92977     310     .09573     293     .94639     10,4     .0566     1,2       .797     .93287     310     .09866     293     .94649     10,4     .0565     1,2       .798     .93597     310     .10160     294     .94660     10,4     .0564     1,2       .799     .93907     310     .10453     294     .94670     10,4     .0563     1,2       1.800     2.94217     311     3.10747     294     0.94681     10,4     1.0562     1,2		.92049		.08695		.94608		.0570	4	1,2
.796       .92977       310       .09573       293       .94639       10,4       .0566       1,2         .797       .93287       310       .09866       293       .94649       10,4       .0565       1,2         .798       .93597       310       .10160       294       .94660       10,4       .0564       1,2         .799       .93907       310       .10453       294       .94670       10,4       .0563       1,2         1.800       2.94217       311       3.10747       294       0.94681       10,4       1.0562       1,2		.92358		.08988		.94618		.0569		1,2
.796     .92977     310     .09573     293     .94639     10,4     .0566     1,2       .797     .93287     310     .09866     293     .94649     10,4     .0565     1,2       .798     .93597     310     .10160     294     .94660     10,4     .0564     1,2       .799     .93907     310     .10453     294     .94670     10,4     .0563     1,2       1.800     2.94217     311     3.10747     294     0.94681     10,4     1.0562     1,2	1.795	2.92667	309	3.09280	293	0.94629	10,5	1.0568	200	I,2
.797     .93287     310     .09866     293     .94649     10,4     .0565     1,2       .798     .93597     310     .10160     294     .94660     10,4     .0564     1,2       .799     .93907     310     .10453     294     .94670     10,4     .0563     1,2       1.800     2.94217     311     3.10747     294     0.94681     10,4     1.0562     1,2		.92977			293		10,4		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1,2
.798     .93597     310     .10160     294     .94660     10,4     .0564     1,2       .799     .93907     310     .10453     294     .94670     10,4     .0563     1,2       1.800     2.94217     311     3.10747     294     0.94681     10,4     1.0562     1,2	•797	.93287								1,2
.799     .93907     310     .10453     294     .94670     10,4     .0563     1,2       1.800     2.94217     311     3.10747     294     0.94681     10,4     1.0562     1,2		.93597	310		294					1,2
	•799		310	.10453	294	.94670	10,4	.0563		1,2
Annual NEV asserting NEV attack in the second new texts.	1.800	2.94217	311	3.10747	294	0.94681	10,4	1.0562	60	1,2
I in riving of receipt and rec	u	tan gd u	ω.F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd y	ω F <sub>0</sub> ′	

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> '	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.800	2.94217	311	3.10747	294	0.94681	10,4	1.0562	I,2
.801	.94528	311	.11042	295	.94691	10,3	.0561	I,2
.802	.94840	311	.11336	295	.94701	10,3	.0560	1,2
.803	.95151	312	.11631	295	.94712	10,3	.0558	1,1
.804	·.95463	312	.11927	295	.94722	10,3	.0557	Ι,1
1.805	2.95775	312	3.12222	296	0.94732	10,3	1.0556	1,1
.806	.96087	313	.12518	296	.94742	10,2	.0555	1,1
.807 .808	96400	313	.12814	296	•94753	10,2	.0554	I,1
.809	.96713	313 313	.13111	297 297	.94763 .94773	10,2 10,2	.0553	I,1 I,1
1.810								
.811	2.97340 .97654	314 314	3.13705	297 298	0.94783 94793	I0,2 I0,1	1.0550	I,1
.812	.97968	314	14300	298	.94/93	10,1	.0549	I,1 I,1
.813	.98282	315	14599	298	.94814	10,1	.0547	. I,
.814	.98597	315	14897	299	.94824	10,1	.0546	. I,1
•		i -	ekon a Gergy (d.			10,1	.0340	
1.815	2.98912	315	3.15196	299	0.94834	10,1	1.0545	1,
.816	.99227	315	15495	299	-94844	10,0	.0544	Ι,:
.817 .818	99543	316	15794	300	.94854	10,0	.0543	I,
.819	.99859	316 316	16094	300 300	.94864	10,0	.0541	I,:
- 1	3.00175	310	.16394	300	.94874	10,0	.0540	1,1
1.820	3.00492	317	3.16694	300	0.94884	10,0	1.0539	Ι,:
.821 .822	.00808	317	. 16995	301	.94894	10,0	.0538	Ι,:
.823	.01126	317 318	.17296	301	94904	9,9	.0537	Ι,:
.824	.01443 .01761	318	.17597	301 302	.94914	9,9 9,9	.0536 .0535	I,: I,:
1.825	3.02079	318	3.18201	302	0.94933	9,9	1.0534	Ι,:
.826	.02397	319	.18503	302	94943	9,9	.0533	I,:
.827	.02716	319	18805	303	94953	9,8	.0532	Ι,
.828	03035	319	80101.	303	.94963	9,8	.0530	I,
.829	.03354	319	.19411	303	•94973	9,8	.0529	ī,
1.830	3.03674	320	3.19715	304	0.94983	9,8	1.0528	Ι,
.831	.03994	320	.20019	304	.94992	9,8	.0527	Ι,1
.832	.04314	320	.20323	304	.95002	9,7	.0526	Ι,
.833	.04634	321	.20627	305	.95012	9,7	.0525	· I,1
.834	.04955	321	.20932	305	.95022	9,7	.0524	. 1,1
1.835	3.05276	321	3.21237	305	0.95031	9,7	1.0523	. , 1,1
.836	.05597	322	.21543	306	.95041	9,7	.0522	I,
.837	.05919	322	.21849	306	.95051	9,7	.0521	1,1
.838 .839	.06241 .06563	322 322	.22155	306 307	.95060 .95070	9,6 9,6	.0520	I,1 I,1
		_	{					
1.840 .841	3.06886 .07209	323	3.22768 23075	307	0.95080 .95089	9,6 9,6	1.0518	1,1
.842	.07209	323 323	.23382	307 308	.95009	9,6 9,6	.0516	I,1 I,1
.843	.07856	323 324	23690	308	.95108	9,5	.0515	I,1
.844	.08180	324	.23998	308	.95118	9,5	.0513	I,1
1.845	3.08504	324	3.24306	309	0.95127	9,5	1.0512	1,1
.846	.08828	325	.24615	309	.95137	9,5	.0511	1,0
.847	.00153	325	.24924	309	.95146	9,5	.0510	1,0
.848	.09478	325	.25233	309	.95156	9,5	.0500	1,0
.849	.09803	326	-25543	310	.95165	9,4	.0508	1,0
1.850	3.10129	326	3.25853	310	0.95175	9,4	1.0507	1,0
- 1			1			1		

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω <b>F</b> <sub>0</sub> ′
1.850	3.10129	326	3.25853	310	0.95175	9,4	1.0507	1,0
.851	. 10455	326	.26163	310	.95184	9,4	.0506	
.852	.10781	326	.26474	311	.95193	9,4	.0505	1,0
.853	.11108	327	.26785	311	.95203	9,4	.0504	1,0
.854	.11435	327	.27096	311	.95212	9,3	.0503	1,0
1.855	3.11762	327	3.27408	312	0.95221	9,3	1.0502	1,0
.856	.12090	328	.27719	312	.95231	9,3	.0501	1,0
.857.	.12418	328	.28032	312	.95240	9,3	.0500	1,0
.858	.12746	328	.28344	313	.95249	9,3	.0499	1,0
.859	.13074	329	.28657	313	.95259	9,3	.0498	1,0
1.860	3.13403	329	3.28970	313	0.95268	9,2	1.0497	1,0
.861	. 13732	329	.29284	314	.95277	9,2	.0496	1,0
.862	.14062	330	.29598	314	.95286	9,2	.0495	1,0
.853	.14392	330	.29912	314	.95296	9,2	.0494	1,0
.864	.14722	330	.30227	315	.95305	9,2	.0493	1,0
1.865	3.15052	331	3.30542	315	0.95314	9,2	1.0492	1,0
.866	.15383	331	.30857	315	.95323	9,1	.0491	1,0
.867	.15714	331	.31172	316	95332	9,1	.0490	1,0
.868 .869	. 16045 . 16377	33 <sup>1</sup> 33 <sup>2</sup>	.31488 .31804	316 316	.95341	9,1 9,1	.0489 .0488	I,0 I,0
. 1			Fac, 1762	-	30.40		1	
1.870	3.16709	332	3.32121	317	0.95359	9,1	1.0487	1,0
.871	.17041	332	.32438	317	.95368	9,0	.0486	I,0
.872	·17374	333	.32755	317	.95378	9,0	.0485	I,0
.873	17700	333	33073	318	.95387	9,0	.0484	I,0 I,0
.874	. 18040	333	•33390	318	.95396	9,0	.0483	
1.875	3.18373	344	3.33709	318	0.95405	9,0	1.0482	I,0
.876	. 18707	334	.34027	319	.95414	9,0 8,9	.0481	I,0 I,0
.877	.19041	334	.34346	319	95422		.0479	I,0
.878 .879	.19376	335	.34665	319 320	.95431	8,9 8,9	.0479	I,0
						1		i:- ·.
1.880	3.20046	335	3.35305	320	0.95449	8,9	1.0477	1,0
.881	.20381	336	.35625	320	.95458	8,9	.0476	1,0
.882	.20717	336	.35946	321	95467	8,9	.0475	I,0
.883 .884	.21053	336	.36266	32I 32I	.95476	8,8 8,8	.0474	I,0 I,0
	.21390	337	Park a market	321	.93403	1	.04/3	
1.885	3.21726	337	3.36909	322	0.95493	8,8	1.0472	1,0
.886	.22063	337	.37231	322	.95502	8,8	.0471	1,0
.887	.22401	338	•37553	322	.95511	8,8	.0470	1,0
.888	.22738	338	.37876	323	.95520	8,8	.0469	1,0
.889	.23076	338	.38199	323	.95529	8,7	.0468	1,0
1.890	3.23415	339	3.38522	323	0.95537	8,7	1.0467	1,0
.891	23753	339	.38846	324	.95546	8.7	.0466	1,0
.892	.24093	339	.39170	324	95555	8,7	.0465	1,0
.893	.24432	339	39494	324	.95563	8,7	.0464	1,0
.894	.24772	340	.39818	325	.95572	8,7	.0463	0,9
1.895	3.25112	340	3.40143	325	0.95581	8,6	1.0462	0,9
.896	.25452	340	.40469	325	.95589	8,6	.0461	0,9
.897	.25792	341	.40794		.95598	8,6	.0460	0,9
.898	.26133	341	41120	326	.95607	8,6	.0460	0,9
.899	.26475	341	41447	326	.95615	8,6	.0459	0,9
1.900	3.26816	342	3.41773	327	0.95624	8,6	1.0458	0,9
1		ω Fo'	sec gd u	ω Fo'	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω Γι'

Natural Hyperbolic Functions.

					le sandfielder			
u	sinh u	ω F <sub>0</sub> '	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
1.900	3.26816	342	3.41773	327	0.95624	8,6	1.0458	0,9
.901	.27158	342	.42100	327	.95632	8,5	.0457	0,9
.902	.27500	342	.42427	328	.95641	8,5	.0456	0,9
.903	.27843	343	.42755	328	.95649	8,5	.0455	0,9
.904	.28186	343	43083	328	.95658	8,5	.0454	0,9
1.905	3.28529	343	3.43412	329	0.95666	8,5	1.0453	0,9
.906	.28873	344	.43740	329	.95675	8,5	.0452	0,9
.907	.29217	344	.44069	329	.95683	8,4	.0451	0,9
.908	.29561	344	44399	330	.95692	8,4	.0450	0,9
909	.29906	345	.44728	330	.95700	8,4	.0449	0,9
1.910	3.30250	345	3.45058	330	0.95709	8,4	1.0448	0,9
.911	.30596	345	.45389	331	.95717	8,4	.0447	0,9
.912	.30941	346	.45720	331	.95725	8,4	.0447	0,9
.913	.31287	346	.46051	331	95734	8,4	.0446	0,9
.914	.31633	346	.46382	332	95742	8,3	.0445	0,9
1.915	3.31980	347	3.46714	332	0.95750	8,3	1.0444	0,9
.916	.32327	347	47046	332	.95759	8.3	.0443	0,9
.917	.32674	347	•47379	333	.95767	8.3	.0442	0,9
.918	.33021	348	.47712	333	•95775	8,3	.0441	0,9
.919	.33369	348	48045	333	95783	8,3	.0440	0,9
1.920	3.33718	348	3.48378	334	0.95792	8,2	1.0439	0,9
.921	.34066	349	.48712	334	.95800	8.2	.0438	0,9
.922	.34415	349	.49046	334	.95808	8,2	.0438	0,9
.923	.34764	349	.49381	335	.95816	8,2	.0437	0,9
.924	.35114	350	.49716	335	95825	8,2	.0436	<b>0,</b> 9
1.925	3.35464	350	3.50051	335	0.95833	8,2	1.0435	0,9
.926	.35814	350	50387	336	.95841	8,1	.0434	0,9
.927	.36164	351	.50723	336	.95849	8, r	.0433	0,9
.928	.36515	351	.51059	337	.95857	8,1	.0432	0,9
.929	.36867	351	.51396	337	.95865	8,1	.0431	0,9
1.930	3.37218	352	3.51733	337	0.95873	8,1	1.0430	0,9
.931	.37570	352	52070	338	.95881	8,1	.0430	0,9
.932	37922	352	.52408	338	.95890	8,1	.0429	0,9
•933	.38275	353	.52746	338	.95898	8,0	.0428	0,9
•934	.38628	353	.53085	339	.95906	8,0	.0427	<b>0,</b> 9
1.935	3.38981	353	3.53423	339	0.95914	8,0	1.0426	0,9
.936	39335	354	- 53763	339	.95922	8,0	.0425	0,9
.937	.39689	354	54102	340	.95930	8,0	.0424	0,9
.938	.40043	354	.54442	340	.95938	8,0	.0423	0,9
-939	.40397	355	.54782	340	95945	7,9	.0423	0,9
1.940	3.40752	355	3.55123	341	0.95953	7,9	1.0422	0,9
.941	.41108	355	55464	341	.95961	7,9	.0421	0,9
.942	.41463	356	.55805	341	.95969	7,9	.0420	0,9
•943	.41819	356	.56147	342	95977	7,9	.0419	0,9
•944	.42176	356	.56489	342	.95985	7,9	.0418	0,9
1.945	3.42532	357	3.56831	343	0.95993	7,9	1.0417	0,9
.946	.42880		•57174	343	.96001	7,8	.0417	0,9
•947	.43247	357 358	•57517	343	96009	7,8	.0416	0,9
.948	43604	358	.57860	344	.96016	7,8	.0415	0,9
•949	.43962	358	. 58204	344	.96024	7,8	.0414	0,9
1.950	3.44321	359	3.58548	344	0.96032	7,8	1.0413	0,8
ш. и	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′
<u> </u>				1		and the part	Burnel May you be for the Party of	other type out of the Mitte

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'u' ''.'	sinh ü	' ω Έζ'	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω <b>F</b> <sub>0</sub> ′
1.950	3.44321	359	3.58548	344	0.96032	7,8	1.0413	0,8
.951	.44679	359	58893	345	96040	7,8	.0412	
			59237	345	96047		.0412	i i i i i i i i i i i i i i i i i i i
.952	45038	359	59583		.96055	7,7 7,7	.0411	
953	45398	360		345				
•954	.45758	360	.59928	346	.96063	7,7	.0410	
1.955	3.46118	360	3.60274	346	0.96071	7,7	1.0409	0,8
.956	.46478	361	.60520	346	.96078	7,7	.0408	_
•957	.46839	261	.60967	347	.96086	7,7	.0407	ii.
.958	.47200	361	.61314	347	.96094	7.7	.0407	
.959	.47562	362	.61662	348	.96101	7,6	.0406	
1.960	3.47923	362	3.62009	348	0.96109	7,6	1.0405	0,8
.961	48286	362	.62357	348	.96117	7,6	.0404	, ,,,
.962	.48648	363	.62706	349	.96124	7,6	.0403	
.963	.49011	363	.63055	349	.96132	7,6	.0402	
.964	•49374	363	.63404	349	.96139	7,6	.0402	
1.965	3.49738	364	3.63753	350	0.96147	7,6	1.0401	0,8
.966	.50102	364	.64103	350	.96155	7,5	.0400	
.967	.50466	364	.64454	350	.96162	7,5	.0399	
.968	.50831	365	64804	351	.96170	7,5	.0398	4.1
.969	.51196	365	.65155	351	.96177	7,5	.0397	
7 070	a ere6r	366	3.65507	252	0.96185	7 5	1.0397	0,8
1.970	3.51561	300	3.05507	352		7,5		0,0
.971	.51927	366	.65858	352	.96192	7,5	,0396	
.972	52293	366	.66211	352	.96199	7,5	0395	, [
•973	. 52659	367	.66563	353	.96207	7,4	.0394	
•974	.53026	367	.66916	353	.96214	7,4	.0393	
1.975	3 • 53393	367	3.67269	353	0.06222	7,4	1.0393	0,8
.976	.53760	368	67623	354	.96229	7,4	.0392	-,-
		368	67977	354	.96237	7,4	.0391	1000
•977	.54128	368	.68331		.96244			
.978	•54496	368	68686	354		7,4	.0390	
•979	.54865	<b>3</b> 69	.00000	355	.96251	7,4	.0389	
1.980	3.55234	369	3.69041	355	0.96259	7,3	1.0389	0,8
.981	.55603	369	.69396	356	.96266	7,3	.0388	,
.982	55972	370	.69752	356	.96273	7,3	.0387	
.983	.56342	370	.70108	356	.96281	7,3	.0386	
.984	.56713	370	.70465	357	96288	7,3	.0386	
	.30/13	3/0		337		7,5	100	
1.985	3.57083	371	3.70821	357	0.96295	7,3	1.0385	0,8
.085	• 57454	371	.71179	357	.96302	7.3	.0384	
.987	.57826	372	.71536	358	.96310	7,2	.0383	
.988	.58197	372	.71894	358	.96317	7,2	.0382	
.989	.58569	372	.72253	359	.96324	7,2	.0382	
	erse.	a-a	0 70617	050	0.06227	70	77.5.0	
1.990	3.58942	373	3.72611	359	0.96331	7,2	1.0381	0,8
.991	-59315	373	72971	359	.96339	7,2	.0380	[* ]
.992	.59588	373	.73330	360	.96346	7,2	.0379	
•993	.60061	374	.73690	360	96353	7,2	.0379	
•994	.60435	374	.74050	360	.96360	<i>7</i> ,1	.0378	
1.995	3.60809	374	3.74411	361	0.96367	7,1	1.0377	0,8
.996	.61184	375	.74772	361	.96374	7,1	.0376	1
997	.61559	375	.75133	362	.96382	7,1	.0375	
.998	.61934	275		362	.96389	7,1	.0375	
.999	.62310	375 376	·75495 ·75857	362	.96396	7,1	.0374	
2.000	3.62686	376	3.76220	363	0.95403	7,1	1.0373	0,8
2.000		-						
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> '
2.000	3.62686	376	3.76220	363	0.96403	7,1	1.0373	0,8
.001	.63052	377	76582	363	95410	7,1	.0372	-,-
.002	.63439	377	76946	363	.96417	7,0	.0372	
.003	.63816	377	.77309	364	.96424	7,0	.0371	
.004	.64194	378	•77 <sup>6</sup> 73	364	.95431	7,0	.0370	•
2,005	3.64572	378	3.78038	365	0.96438	7,0	1.0369	0,8
.005	.64950	378	.78402	365	.96445	7,0	.0369	0,8
.007	.65328	379	.78768	365	96452	7,0	.0368	0,7
.008	.65707 .66087	379 379	•79133 •79499	366 366	.96459 .96466	7,0 6,9	.0367	
_				-			- 1	
.010	3.66466 .66846	380 380	3.79865	366 367	0.96473 .96480	6,9 6,9	.0366	0,7
.012	.67227	381	.80599	367	.96487	6,9	.0364	
.013	.67608	381	.80966	368	.96493	6,9	.0363	
.014	.67989	381	.81334	368	.95500	6,9	.0363	
2.015	3.68370	382	3.81702	368	0.95507	6,9	1.0362	0,7
<b>.0</b> 16	.68752	382	.82071	369	.96514	6,9	.0361	•
.017	.69134	. 382	82440	369	.96521	6,8	.0360	
.018	.69517 .699 <b>00</b>	383 383	.82809 .83179	370 370	.96528	6,8 6,8	.0360	
					1.5		.0339	
2.020 .02I	3.70283 .70667	384 384	3.83549	370 371	0.96541 .96548	6,8 6,8	.0358	0,7
.022	.71051	384	.84290	371	.96555	6,8	.0357	
.023	.71436	385	.84662	371	.96562	6,8	.0356	
.024	.71821	385	85033	372	.96568	6,7	.0355	
2.025	3.72206	385	3.85405	372	0.96575	6,7	1.0355	0,7
.026	.72591	386	.85778	373	.96582	6,7	.0354	
.027	.72977	386	.86150	373	.96589	6,7	.0353	
.028	.73364	387	.86524 .86897	373	.96595	6,7	.0352	
.029	73750	387	.00097	374	95602	6,7	.0352	
2.030	3.74138	387	3.87271	374	0.96609	6,7	1.0351	0,7
.031	.74525	388 388	.87645 .88020	375	.96622	6,7 6,6	.0350	
.032	.74913 .75301	388	88395	375 375	.96629	6,6	.0349	
.034	.75690	389	.88771	376	.96635	6,6	.0348	
2.035	3.76079	389	3.89147	376	0.96642	6,6	1.0347	0,7
.036	76468	390	.89523	376	.96648	6,6	.0347	
.037	.76858	390	.89900	377	.96655	6,6	.0346	
.038	.77248	390	.90277	377	.96662	6,6	.0345	
.039	.77638	391	90654	378	.96668	6,6	.0345	
2.040	3.78029	391	3.91032	378	0.96675	6,5 6,5 6,5 6,5 6,5	1.0344	0,7
.041	.78420	391	91410	378	.96681	6,5	.0343	
.042	.78812	392	.91789	379	.96588	0,5	.0343	
.043	79204	392	.92168	379 380	.96694 .96701	6,5	.0342	
.044	79596	393	92547	[ e			.0341	
2.045 .046	3.79989	393	3.92927	380 380	0.96707 95714	6,5 6,5 6,5 6,4	1.0340	0,7
.047	80776	393 394	.93307	381	.95720	6.5	.0340	
.048	.81169	394	94069	381	96727	6,4	.0338	
.049	.81564	394	.94450	382	.96733	6,4	.0338	
2.050	3.81958	395	3.94832	382	0.96740	6,4	1.0337	0,7
	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub>	coth u	ω F <sub>0</sub> ′
2.050 .051 .052 .053 .054	3.81958 .82353 .82749 .83145 .83541	395 395 396 396 396	3.94832 .95214 .95597 .95979 .96363	382 382 383 383 384	0.96740 .96746 .96752 .96759 .96765	6,4 6,4 6,4 6,4 6,4	1.0337 .0336 .0336 .0335 .0334	0,7
2.055 .056 .057 .058 .059	3.83937 .84334 .84732 .85129 .85527	397 397 398 398 398	3.96747 .97131 .97515 .97900 .98285	384 384 385 385 386	0.96771 .96778 .96784 .96790 .96797	6,4 6,3 6,3 6,3 6,3	1.0334 .0333 .0332 .0332 .0331	0,7
2.060 .061 .062 .063 .064	3.85926 .85325 .86724 .87124 .87524	399 399 399 400 400	3.98571 .99057 .99444 .99831 4.00218	386 386 387 387 388	0.96803 .96809 .96816 .96822	6,3 6,3 6,3 6,3 6,2	1.0330 .0330 .0329 .0328 .0328	0,7
2.065 .066 .067 .068 .069	3.87924 .88325 .88726 .89128 .89530	401 401 401 402 402	4.00606 .00994 .01382 .01771 .02161	388 388 389 389 390	0.96834 .96841 .96847 .96853 .96859	6,2 6,2 6,2 6,2 6,2	1.0327 .0326 .0326 .0325 .0324	0.7
2.070 .071 .072 .073 .074	3.89932 .90335 .90738 .91141 .91545	403 403 403 404 404	4.02550 .02941 .03331 .03722 .04113	390 390 391 391 392	0.96865 .96872 .96878 .96884 .96890	6,2 6,2 6,1 6,1 6,1	1.0324 .0323 .0322 .0322 .0321	0,7
2.075 .076 .077 .078 .079	3.91950 .92354 .92759 .93165 .93571	405 405 405 406 406	4.04505 .04897 .05290 .05683 .06076	392 392 393 393 394	0.96896 .96902 .96908 .96914 .96920	6,1 6,1 6,1 6,1 6,1	1.0320 .0320 .0319 .0318 .0318	0,7 0,6
2.080 .081 .082 .083 .084	3.93977 .94384 .91791 .95198 .95606	406 407 407 108 408	4.06470 .06864 .07259 .07654 .08049	394 394 395 395 396	0.96926 .96933 .96939 .96945 .96951	6,1 6,0 6,0 6,0 6,0	1.0317 .0316 .0316 .0315	0,6
2.085 .086 .087 .088 .089	3.96014 .96423 .96832 .97241 .97651	408 409 409 410 410	4.08445 .08841 .09238 .09635 .10032	396 396 397 397 398	0.96957 .96963 .96969 .96975 .96980	6,0 6,0 6,0 6,0 5,9	1.0314 .0313 .0313 .0312 .0311	0,6
2.090 .091 .092 .093 .094	3.98061 .98472 .98883 .99294 .99706	410 411 411 412 412	4.10430 .10828 .11227 .11626 .12026	398 398 399 399 400	0.96986 .96992 .96998 .97004 .97010	5,9 5,9 5,9 5,9 5,9	1.0311 .0310 .0309 .0309 .0308	<b>0,</b> 6
2.095 .096 .097 .098	4.00119 .00531 .00944 .01358 .01771	412 413 413 414 414	4.12426 .12826 .13227 .13628 .14029	400 401 401 401 402	0.97016 .97022 .97028 .97034 .97039	5,9 5,9 5,9 5,8 5,8	1.0308 .0307 .0306 .0306	0,6
2.100	-	414	4.14431	402	0.97045	5,8	1.0304	0,6
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

					/				
	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> /	coth u	ω F <sub>0</sub> /
	2.100 .101 .102 .103 .104	4.02186 .02600 .03015 .03431 .03847	414 415 415 416 416	4.14431 .14834 .15237 .15640 .16043	402 403 403 403 404	0.97045 .97051 .97057 .97063 .97068	5,8 5,8 5,8 5,8 5,8	1.0304 .0304 .0303 .0303 .0302	0,6
	2.105 .106 .107 .108 .109	4.04263 .04680 .05097 .05514 .05932	416 417 417 418 418	4.16447 .16852 .17257 .17662 .18068	404 405 405 406 406	0.97074 .97080 .97086 .97091 .97097	5,8 5,8 5,7 5,7 5,7	1.0301 .0301 .0300 .0300 .0299	0,6
	2.110 .111 .112 .113 .114	4.06350 .06769 .07188 .07607 .08027	418 419 419 420 420	4.18474 .18881 .19288 .19695 .20103	406 407 407 408 408	0.97103 .97109 .97114 .97120 .97126	5,7 5,7 5,7 5,7	1.0298 .0298 .0297 .0297 .0296	<b>0,6</b>
	2.115 .116 .117 .118 .119	4.08448 .08868 .09289 .09711 .10133	42I 42I 42I 422 422	4.20511 .20920 .21329 .21738 .22148	408 409 409 410 410	0.97131 .97137 .97143 .97148 .97154	5,7 5,6 5,6 5,6 5,6	1.0295 .0295 .0294 .0294 .0293	0,6
	2.120 .121 .122 .123 .124	4.10555 .10978 .11401 .11825 .12249	423 423 423 424 424	4.22558 .22969 .23380 .23792 .24204	411 411 411 412 412	0.97159 .97165 .97171 .97176 .97182	5,6 5,6 5,6 5,6 5,6	I.0292 .0292 .029I .029I .0290	<b>0,6</b>
	2.125 .126 .127 .128 .129	4.12673 .13098 .13523 .13949 .14375	425 425 425 426 426	4.24617 .25029 .25443 .25856 .26271	413 413 414 414 414	0.97187 .97193 .97198 .97204 .97209	5,5 5,5 5,5 5,5 5,5	1.0289 .0289 .0288 .0288 .0287	<b>0,6</b>
	2.130 .131 .132 .133 .134	4.14801 .15228 .15656 .16083 .16512	427 427 428 428 428 428	4.26685 .27100 .27516 .27932 .28348	415 415 416 416 417	0.97215 .97220 .97226 .97231 .97237	5,5 5,5 5,5 5,5 5,4	1.0286 .0286 .0285 .0285 .0284	<b>0,</b> 6
	2.135 .136 .137 .138 .139	4.16940 .17369 .17798 .18228 .18658	429 429 430 430 430	4.28765 .29182 .29599 .30017 .30436	417 417 418 418 419	0.97242 .97248 .97253 .97258 .97264	5,4 5,4 5,4 5,4 5,4	1.0284 .0283 .0282 .0282 .0281	<b>0,6</b>
	2.140 .141 .142 .143 .144	4.19089 .19520 .19952 .20384 .20816	431 431 432 432 433	4.30855 .31274 .31694 .32114 .32534	419 420 420 420 421	0.97269 .97275 .97280 .97285 .97291	5,4 5,4 5,4 5,4 5,3	1.0281 .0280 .0280 .0279 .0278	<b>0,6</b>
	2.145 .146 .147 .148 .149	4.21249 .21682 .22115 .22549 .22984	433 433 434 434 435	4.32955 .33377 .33799 .34221 .34644	42I 422 422 423 423	0.97296 .97301 .97307 .97312 .97317	5,3 5,3 5,3 5,3 5,3	I .0278 .0277 .0277 .0276 .0276	. (1 4 4 1 <b>0,6</b>
	2.150	4.23419	435	4.35067	423	0.97323	5.3	1.0275	0,6
L	us.i.v	tan gđu	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

0.150	<u> 1999年4月</u>							-
2.150	4.23419	435	4.35067	423	0.97323	5,3	1.0275	0,6
151	.23854	435	.35491	424	.97328	5,3	.0275	
.152	.24290	436	.35915	424	•97333	5,3	.0274	400
. 153	.24726	436	.36339	425	.97338	5,3	.0273	1
.154	.25162	437	.36764	425	•97344	5,2	.0273	
2.155	4.25599	437	4.37190	426	0.97349	5,2	1.0272	0,6
.156	.26037	438	.37615	426	•97354	5,2	.0272	0,6
.157	.26475	438	.38042	426	.97359	5,2	.0271	0,5
. 158	.26913	438	.38468	427	97365	5,2	.0271	0,5
.159	.27352	439	.38896	427	.97370	5,2	.0270	0,5
2.160	4.27791	439	4.39323	428	0.97375	5,2	1.0270	0,5
161	.28230	440	.39751	428	.97380	5,2	.0269	
. 162	.28670	440	.40180	429	.97385	5,2	.0268	
. 163	.29111	441	.40608	429	-97390	5,2	.0268	l di
. 164	.29551	441	.41038	430	.97396	5,1	.0267	
2.165	4.29993	441	4.41468	430	0.97401	5,1	1.0267	0,5
. 166	30434	442	.41898	430	.97406	5, I	.0266	r r
. 167	.30876	442	.42328	431	97411	5,1	.0266	
. 168	.31319	443	.42760	431	.97416	5,1	.0265	5. 1
. 169	.31762	443	.43191	432	97421	5,1	.0265	
2.170	4.32205	444	4.43623	432	0.97426	5,1	1.0264	0,5
. 171	.32649	444	.44056	433	.97431	5,1	.0264	
. 172	.33093	441	.44488	433	.97436	5,1	.0263	4.
.173	.33538	445	.44922	434	.97441	5,1	.0263	4.
.174	.33983	445	45355	434	.97446	5,0	.0262	
2.175	4.34429	446	4.45790	434	0.97452	5,0	1.0262	0,5
.176	.34875	446	.46224	435	97457	5,0	.0261	
. 177	35321	447	.46659	435	.97462	5,0	.0260	E .
. 178	35768	447	.47095	436	.97467	5,0	.0260	1
179	36215	448	·47531	436	97472	5,0	.0259	
2.180	4.36663	448	4.47967	437	0.97477	5,0	1.0259	0,5
. 181	.37111	448	.48404	437	.97482	5,0	.0258	,,,
. 182	.37560	449	.48842	438	.97487	5,0	.0258	
. 183	.38000	449	.49279	438	.97491	5,0	.0257	I ·
. 184	.38459	450	.49718	438	.97496	4,9	.0257	
2.185	4.38909	450	4.50156	439	0.97501	4,9	1.0256	0,5
. 186	39359	451	.50595	439	.97506	4,9	.0256	-"
. 187	39810	451	.51035	440	.97511	4,9	.0255	gi
. 188	.40261	451	.51475	440	.97516	4,9	.0255	H
.189	.40713	452	.51916	441	.97521	4,9	.0254	
2.190	4.41165	452	4.52356	441	0.97526	4,9	1.0254	0,5
. 19I	41617	453	.52798	442	.97531	4,9	.0253	-,3
.192	.42070	453	.53240	442	97536	4,9	.0253	<i>A</i>
.193	.42524	454	.53682	443	97541	4,9	.0252	d
.194	.42978	454	.54125	443	•97545	4,8	.0252	
2.195	4.43432	455	4.54568	443	0.97550	4,8	1.0251	0,5
.196	43887	455	.55012	444	.97555	4,8	.0251	7,9
.197	.44342	455	.55456	444	.97560	4.8	.0250	
.198	.44798	456	.55900	445	.97565	4,8	.0250	<u> </u>
199	.45254	456	.56345	445	97570	4,8	.0249	it Bi
2.200	4.45711	457	4.56791	446	0.97574	4,8	1.0249	0,5
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′
	AN TABLES		Accessories and the last	1 Harabayak interiori		34 12 C		all transport from the

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.200 .201 .202 .203 .204	4.45711 .46168 .46625 .47083 .47541	457 457 458 458 458 459	4.56791 .57237 .57683 .58130 .58577	446 446 447 447 448	0.97574 .97579 .97584 .97589 .97593	4,8 4,8 4,8 4,8 4,8	1.0249 .0248 .0248 .0247	0,5
2.205	4.48000	459	4.59025	448	0.97598	4,7	1.0246	0,5
.206	.48459	459	.59473	448	.97603	4,7	.0246	
.207	.48919	460	.59922	449	.97608	4,7	.0245	
.208	.49379	460	.60371	449	.97612	4,7	.0245	
.209	.49840	461	.60821	450	.97617	4,7	.0244	
2.210	4.50301	461	4.61271	450	0.97622	4,7	1.0244	0,5
.211	.50762	462	.61721	451	.97626	4,7	.0243	
.212	.51224	462	.62172	451	.97631	4,7	.0243	
.213	.51687	463	.62624	452	.97636	4,7	.0242	
.214	.52149	463	.63076	452	.97640	4,7	.0242	
2.215	4.52613	464	4.63528	453	0.97645	4,7	1.0241	0,5
.216	.53077	464	.63981	453	.97650	4,6	.0241	
.217	.53541	464	.64434	454	.97654	4,6	.0240	
.218	.54005	465	.64888	454	.97659	4,6	.0240	
.219	.54471	465	.65342	454	.97664	4,6	.0239	
2.220	4.54936	466	4.65797	455	0.97668	4,6	1.0239	0,5
.221	.55402	466	.66252	455	.97673	4,6	.0238	
.222	.55859	467	.66708	456	.97678	4,6	.0238	
.223	.56336	467	.67164	456	.97682	4,6	.0237	
.224	.55803	468	.67620	457	.97687	4,6	.0237	
2.225	4.57271	468	4.68078	457	0.97691	4,6	1.0236	O,5
.226	.57739	469	.68535	458	.97696	4,6	.0236	
.227	.58208	469	.68293	458	.97700	4,5	.0235	
.228	.58677	469	.69451	459	.97705	4,5	.0235	
.229	.59147	470	.69910	459	.97709	4,5	.0234	
2.230	4.59617	470	4.70370	460	0.97714	4,5	1.0234	0,5
.231	.60087	471	.70830	460	.97718	4,5	.0233	
.232	.60559	471	.71290	461	.97723	4,5	.0233	
.233	.61030	472	.71751	461	.97727	4,5	.0233	
.234	.61502	472	.72212	462	.97732	4,5	.0232	
2.235	4.61974	473	4.72674	462	0.97736	4,5	I.0232	0,5
.236	.62447	473	.73136	462	.97741	4,5	.023I	
.237	.62921	474	.73599	463	.97745	4,5	.023I	
.238	.63395	474	.74052	463	.97750	4,4	.0230	
.239	.63869	475	.74525	464	.97754	4,4	.0230	
2.240	4.64344	475	4.74989	464	0.97759	4,4	1.0229	0,5
.241	.64819	475	.75454	465	.97763	4,4	.0229	
.242	.65295	476	.75919	465	.97768	4,4	.0228	
.243	.65771	476	.76385	466	.97772	4,4	.0228	
.244	.66247	477	.76851	466	.97776	4,4	.0227	
2.245	4.66724	477	4.77317	467	0.97781	4,4	1.0227	0,5
.246	.67202	478	.77784	467	.97785	4,4	.0227	
.247	.67680	478	.78252	468	.97790	4,4	.0226	
.248	.68158	479	.78719	468	.97794	4,4	.0226	
.249	.68637	479	.79188	469	.97798	4,4	.0225	
2.250	4.69117	480	4.79657	469	0.97803	4,3	1.0225	0,5
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω <b>F</b> <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.250	4.69117	480	4.79657	469	0.97803	4,3	1.0225	0,5
.251	.69597	480	.80126	470	97807	4.3	.0224	
		481	.80596		.97811		.0224	- 5
.252	70077	401		470		4,3		المنتك للمستعلق الأداف
.253	.70558	481	.81066	471	.97816	4,3	.0223	
.254	.71039	482	.81537	471	.97820	4,3	.0223	0,5
2.255	4.71521	482	4.82008	472	0.97824	4,3	1.0222	0,4
.256	.72003	482	.82480	472	.97829	4,3	.0222	
.257	.72486	483	.82952	472	.97833	4,3	.0222	radio de
.258	.72969	483	.83425	473	.97837	4,3	.0221	
.259	.73453	484	.83898	473	.97841	4.3	.0221	
2.260	4.73937	484	4.84372	474	<b>0.</b> 97846	4,3	1.0220	O <sub>3</sub> 2
		485			97850		.0220	٠,-
.261	.74422		.84846	474		4,3		1. 61
.262	.74907	485	.85321	475	.97854	4,2	.0219	a digner con
.263	.75392	486	.85796	475	.97858	4,2	.0219	4 1 1
.264	.75878	486	.86272	476	.97863	4,2	.0218	4. <b>#</b> .1375
2.265	4.76365	487	4.86748	476	0.97867	4,2	1.0218	0,2
.266	.76852	487	87224	477	.97871	4,2	.0218	
.267	.77339	488	.87701	477	.97875	4,2	.0217	
.268	77827	488	.88179	478	.97879	4,2	.0217	
.269	.77827 .78316	489	.88657	478	.97884	4,2	.0216	
2.270	4.78804	489	4.89136	479	0.97888	4,2	1.0216	0,4
	79294	490	.89615	479	.97892	4,2	.0215	
.271			T	480	.97896		.0215	- ja
.272	79784	490	.90094			4,2		LETT-
.273	.80274	491	.90574	480	.97900	4,2	.0214	1. 7
.274	80765	491	.91055	481	.97905	4,1	.0214	
2.275	4.81256	492	4.91536	481	0.97909	4,1	1.0214	0,
.276	.81748	492	.92017	482	.97913	4,1	.0213	
.277	.82240	492	.92499	482	.97917	4,1	.0213	
.278	.82733	493	.92982	483	.97921	4,1	.0212	l li
.279	.83226	493	.93465	483	.97925	4,1	.0212	
2.280	4.83720	494	4.93948	484	0.97929	4,1	1.0211	О,
.281	.84214	494	94432	484	.97933	4,1	.0211	
.282				485			.0211	
202	.84709	495	.94917		97937	4,I	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1
.283	.85204	495	.95402	485	.97942	4,1	.0210	l i
.284	.85699	496	.95887	486	.97946	4,I	.0210	
2,285	4.86196	496	4.96373	486	0.97950	4,1	1.0209	Ο,
.286	.86692	497	.96859	487	.97954	4,1	.0209	
.287	.87189	497	.97346	487	.97958	4,0	.0208	
.288	.87687	408	.07834	488	.97962	4,0	.0208	File with
.289	.88185	498	.98322	488	.97966	4,0	.0208	å .
2.290	4.88684	499	4.98810	489	0.97970	4,0	1.0207	О,
	.89183		99299	489	97974	4,0	.0207	
.291		499						D
.292	.89682	500	.99789	490	.97978	4,0	.0206	
.293 .294	.90182 .90683	500 501	5.00279 .00769	490 491	.97982 .97986	4,0 4,0	.0206	
	1.6%			1	A STATE OF THE STA			
2.295	4.91184	501	5.01260	491	0.97990	4,0	1.0205	) , 0,
.296	.91685	502	.01751	492	97994	4,0	.0205	
.297	.92187	502	.02243	492	.97998	4,0	.0204	1 4
.298	.92690	503	.02736	493	.98002	4,0	.0204	
.299	.93193	503	.03229	493	.98006	3,9	.0203	
2.300	4.93696	504	5.03722	494	0.98010	3,9	1.0203	о,
	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω Fo'	csc gd u	ω F <sub>0</sub> ′

or - nus assertances since	No. of Assessment	ne repulsi non	a Nasa da a da a da					1
u u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> '	tanh u	ω F <sub>0</sub> ′	ceth u	ω F₀′
2.300	4.93696	504	5.03722	494	0.98010	3,9	1.0203	0,4
∴301	.94200	504	.04216	494	.98014	3,9	.0203	
.302	.94705	505	.04710	495	.98018	3,9	.0202	
.303	.95210	505	.05205	495	.98021	3,9	.0202	
.304	.95715	506	.05701	496	.98025	3,9	.0201	
2.305	4.96221	506	5.06197	496	0.98029	3,9	1.0201	0,4
.306	.96727	507	06693	497	.98033	3,9	.0201	£
.307	.97234	507	.07190	497	.98037	3,9	.0200	
.308	.97742	508	.07688	498	.98041 .98045	3,9	.0200	
.309	.98250	5 <b>0</b> 8	.00100	498	.90045	3,9	.0199	
2.310	4.98758	<b>50</b> 9	5.08684	499	0.98049	3,9	1.0199	0,4
≥.311	99267	509	.09183	499	.98053	3,9 3,8	,0199	
.312	•99777	510	.09683	500	.98056	3,8	.0198	
.313	5.00286	510	.10183	500	.98060 .98064	3,8 3,8	.0198	
.314	.00797	511	.10083	501	1.691	4	.0197	
2.315	5.01308	511	5.11184	501	0.98068	3,8	1.0197	0,4
.316	.01819	512	.11686	502	.98072 .98076	3,8	.0197	
.317	.02331	512	.12188 .12691	502	.98070	3,8 3,8	,0196 ,0196	
.318	.02844	513 513	.12091	503 503	.98083	3,8	.0190	
.319	47.47.	213	( )⊀5	303	1.00	6.5	•0193	
2.320	5.03870	514	5.13697	504	0.98087	3,8	1.0195	0,4
.321	.04384	514	. 14202	504	.98091	3,8	.0195	
.322	.04898	515	14706	505	.98095	3,8	.0194	
.323	.05413	515	.15211	505	98098	3,8	.0194	
•324	.05929	516	.15717	506	.98102	3,8	.0193	
2.325	5.06445	516	5.16223	506	0.98106	3,8	1.0193	0,4
.326	.06961	517	. 16730	507	.98110	3,7	.0193	
.327	.07478	517	.17237	507	.98113	3,7	.0192	,
.328	.07996	518	17745	508	.98117	3.7	.0192	
.329	.08514	518	. 18253	509	.98121	3,7	.0192	
2.330	5.09032	519	5.18762	509	0.98124	3,7	1.0191	0,4
.331	.09551	519	. 19271	510	.98128	3,7	.0191	
.332	.10071	520	. 19781	510	.98132	3,7	.0190	٠.
•333	.10591	520	.20291	511	.98136	3.7	.0190	
•334	.11111	521	.20802	511	.98139	3,7	.0190	
2.335	5.11632	521	5.21314	512	0.98143	3.7	1.0189	0,4
336	.12154	522	.21825	512	.98147	3.7	.0189	
•337	. 12676	522	.22338	513	.98150	3,7	.0188	
.338	.13199	523	.22851	513	.98154	3,7	.0188	`
-339	.13722	523	23364	514	.98158	3.7	.0188	٠.
2.340	5.14245	524	5.23878	514	0.98161	3,6	1.0187	0,4
.341	14770	524	.24393	515	.98165	3,6	.0187	- <del></del>
.342	.15294	525	.24908	515	.ç8169	3,6	.0187	
•343	. 15819	525	.25423	516	.98172	3,6	.0186	
•344	. 16345	526	.25939	516	98176	3,6	.0186	
2.345	5.16871	526	5.26456	517	0.98179	3,6	1.0185	0,4
.346	.17398	527	.26973	517	.98183	3,6	.0185	
•347	.17925	527	.27491	518	.98187	3,6	.0185	
.348	. 18453 . 18981	528	.28009	518	.98190	3,6	.0184	
•349	.19991	529	.28528	519	.98194	3,6	.0184	
2.350	5.19510	529	5.29047	520	0.98197	3,6	1.0184	0,4
u .	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

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u	sinh u	ω F <sub>0</sub> ′	cosh u *	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω <b>F</b> <sub>0</sub> ′
2.350	5.10510	529	5.29047	520	0.98197	3,6	1.0184	0,4
.351	.20039	530	.29567	520	.98201	3,6	.0183	, J,,,
.352	20569	530	30087	521	.98201	3,6	.0183	ā
353	.21100	531	.30608	521	98208	3,6	.0182	¥
354	.21630	531	.31129	522	.98212	3,5	.0182	
1				11.1				
2.355	5.22162	532	5.31651	522	0.98215	3,5	1.0182	0,4
.356	.22694	532	.32174	523	.98219	3,5	.0181	
357	.23226	533	.32697	523	98222	3,5	.0181	
358	.23759	533	.33220	524	.98226	3,5	.0181	tradition to the
359	.24293	534	•33744	524	.98229	3,5	.0180	1 1 14
2.360	5.24827	534	5.34269	525	0.98233	3,5	1.0180	0,4
.361	.25361	535	•34794	525	.98236	3,5	.0180	1 1 1 1 1 1
.362	.25896	535	.35319	526	. 98240	3,5	.0179	
.363	.26432	536	.35845	526	.98243	3,5	.0179	
.364	.26968	536	36372	527	.98247	3,5	.0178	
2 265	T 05704		5.36899	528	0 00000	2.5	T 07#0	
2.365 .366	5.27504 .28042	537		528	0.98250	3,5	1.0178	0,4
367	.28579	537 538	·37427 ·37955	520	.98257	3,5	.0175	
368	.205/9	538	.38484	529	.98257	3,5	.0177	
369	.29656	539	39014	530	.98264	3,4 3,4	.0177	
.309	.29030		.39014	100	.90204	3,4	.01//	
2.370	5.30196	540	5 - 39544	530	0.98267	3,4	1.0176	0,4
.371	.30735	540	.40074	531	.98271	3,4	.0176	1
.372	.31276	541	.40605	531	.98274	3,4	.0176	
•373	.3131	DUAR	4 137	532	98278	3,4	.0175	1 5 3.1
•374	.323	Med	4 90	582	.98278 .98 <b>28</b>	TEO:	NOTA	ny
2.375	5.32900	542	5.42201	533	0.98285	1 100		0,4
.376	.33442	543	12735	333	98288·	3,4	.0174	0,4
377	33985	543	.42735 .43208	533 534	7.08261	3,4	.0174	0,4
.378	34529	514	13803	535	.98295	3,4	.0173	0,3
•379	35073	511	3.44337	535	. 98208	8.4	.0173	0,3
	in the heat part of	- A - A	I	- 19		\$ 3.4		
2.380	5.35618	545	5.44873	536	i 0.98301	3,4	1.0173	0,3
.381	.36163	545	. 15409	536	. 98305	3,4	.0172	
. 382	.35708	546	+45945	537	98308	3,4	.0172	
.383	.37255	546	.46482	537	.98311	3,3	.0172	
.384	.37801	547	.47020	538	.98315	3,3	.0171	1
2.385	5.38349	548	5.47558	538	0.98318	3.3	1.0171	0,3
.386	38897	548	48096	539	.98322	3,3 3,3	.0171	-,0
.387	-39445	549	.48635	539	.98325	3,3	.0170	
388	39994	549	.49175	540	.98328	3,3	.0170	
.389	.40543	550	.49715	541	.98331	3,3	.0170	
1				المناوات واستوامه			Proportional Society	
2.390	5.41093	550	5.50256	541	0.98335	3,3	1.0169	0,3
.391	.41644	551	.50798	542	.98338	3,3	.0169	
.392	.42195	551	.51339	542	.98341	3,3	.0169	41
393	.42740	552	.51882	543	.98345	3,3	.0168	
•394	.43299	552	.52425	543	.98348	3,3	.0108	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
2.395	5.43851	553	5.52969	544	0.98351	3,3	1,0168	0,3
.396	.44405	554	.53513	544 545	.98354	3,3	.0167	
-397	.44958	554	.54057	545	.98358	3,3	.0167	E
.398	-45513	555	.54603	546	.98361	3,3	.0167	
•399	.46058	555	.55148	546	.98364	3,2	.0166	
2.400	5.46623	556	5.55695	547	0.98367	3,2	1.0166	0,3
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

2.400 5.46623 556 5.55695 547 0.08367 3.2 1.0166 0.401 4.7179 556 5.5042 547 9.8371 3.2 .0165 4.402 4.47735 557 5.5785 548 9.98374 3.2 .0165 5.5049 4.403 4.48392 557 5.57337 548 9.8374 3.2 .0165 4.404 4.48392 557 5.57337 548 9.8380 3.2 .0165 5.404 4.4850 558 5.57880 549 9.8380 3.2 .0165 5.404 4.4850 558 5.57880 549 9.8380 3.2 .0165 5.4006 559 5.5804 550 9.8387 3.2 .0164 9.400 4.4966 550 5.5804 550 9.8387 3.2 .0164 9.400 4.9067 550 5.5804 550 9.8380 3.2 .0164 9.400 4.9067 550 5.5804 550 9.8380 3.2 .0164 9.400 5.1046 561 6.0637 552 9.8390 3.2 .0163 9.409 5.1046 561 6.0637 552 9.8390 3.2 .0163 9.409 5.1046 561 6.0637 552 9.8390 3.2 .0163 9.409 5.1046 561 6.0637 552 9.8390 3.2 .0163 9.411 5.5269 562 6.1741 553 9.8403 3.2 .0162 9.411 5.5269 562 6.1045 553 9.8403 3.2 .0162 9.411 5.5269 562 6.6524 553 9.8409 3.2 .0162 9.413 5.3893 503 6.8486 554 9.8409 3.2 .0162 9.414 5.5584 505 6.6508 556 9.8418 3.1 .0161 9.414 5.5584 505 6.6508 556 9.8418 3.1 .0161 9.57280 560 6.66181 557 9.8428 3.1 .0160 9.418 5.57280 560 6.66181 557 9.8428 3.1 .0160 9.419 5.7280 560 6.66181 557 9.8428 3.1 .0160 9.421 9.57280 560 6.66181 557 9.8428 3.1 .0159 9.421 9.57280 560 6.66181 557 9.8428 3.1 .0159 9.421 9.421 5.5814 567 6.07657 558 9.8433 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.58981 568 6.0815 550 9.8443 3.1 .0159 9.422 9.422 5.5608 560 6.6815 557 9.8428 3.1 .0150 9.424 9.0161 560 6.0857 500 9.8440 3.1 .0159 9.422 9.422 5.5608 560 6.6815 550 9.8443 3.1 .0159 9.422 9.422 5.662 570 7.7056 560 9.8440 3.1 .0157 9.422 6.0828 571 7.7058 560 9.8440 3.1 .0157 9.422 6.0828 571 7.7058 560 9.8440 3.1 .0157 9.422 6.0828 571 7.7058 560 9.8450 3.0 .0154 9.428 6.0830 577 7.7058 560 9.8450 3.0 .0155 9.428 6.018 577 7.7044 565 9.8450 3.0 .0155 9.428 6.018 577 7.7044 565 9.8450 3.0 .0155 9.428 6.0055 570 7.7058 560 9.8450 3.0 .0154 9.433 6.6813 577 7.705	u	sinh u	ω <b>F</b> <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
		Silli u		Cosii u	m 10	Lann u		Coin u	<b>∞ F</b> 0
.402 .47735 557 .50780 548 .08374 3.2 .0165 .404 .48850 558 .57886 549 .98386 3.2 .0165 .404 .48850 558 .57886 549 .98386 3.2 .0165 .406 .49067 559 .58934 550 .98387 3.2 .0164 0.407 .50526 560 .50535 551 .98393 3.2 .0164 .406 .49067 .519 .5060 .50535 551 .98393 3.2 .0164 .407 .50526 560 .50535 551 .98393 3.2 .0163 .408 .51046 561 .60637 552 .08393 3.2 .0163 .408 .51046 561 .60637 552 .08393 3.2 .0163 .411 .52769 562 .61741 .553 .08493 3.2 .0162 .411 .52769 562 .61741 .553 .08493 3.2 .0162 .412 .53331 .502 .62244 .553 .08493 3.2 .0162 .412 .53331 .502 .62244 .553 .08493 3.2 .0162 .414 .54456 .503 .63402 .554 .98409 3.2 .0162 .414 .54456 .503 .63402 .554 .98402 3.2 .0162 .417 .56149 .505 .60585 .556 .98412 3.2 .0162 .417 .56149 .505 .60585 .556 .98412 3.2 .0162 .417 .56149 .505 .60585 .505 .98412 3.2 .0162 .419 .57280 .506 .60681 .557 .98428 3.1 .0160 .418 .56715 .506 .60682 .556 .98422 3.1 .0160 .419 .57280 .506 .60681 .557 .98428 3.1 .0160 .422 .58981 .508 .60787 .558 .98431 3.1 .0160 .422 .58981 .508 .60785 .509 .98437 3.1 .0150 .422 .58981 .508 .60785 .509 .98437 3.1 .0150 .422 .58981 .508 .60785 .509 .98437 3.1 .0150 .422 .58981 .508 .60815 .509 .98440 3.1 .0159 .422 .426 .61287 .570 .70096 .561 .98450 3.1 .0157 .426 .61287 .570 .70096 .561 .98450 3.1 .0157 .426 .61287 .570 .70096 .561 .98450 3.1 .0157 .429 .62970 .572 .77783 .562 .98456 3.1 .0157 .429 .62970 .572 .77783 .564 .98468 3.0 .0156 .433 .66828 .573 .73474 .505 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.1 .0157 .429 .62970 .572 .77783 .564 .98450 3.0 .0156 .433 .65826 .574 .77409 .565 .98474 3.0 .0155 .433 .60813 .577 .77441 .569 .98465 3.0 .0156 .433 .60813 .577 .77441 .569 .98465 3.0 .0155 .434 .60826 .575 .79150 .570 .98406 3.0 .0155 .434 .433 .60813 .577 .77441 .569 .98465 3.0 .0153 .434 .60836 .575 .774605	2.400	5.46623	556	5.55695	547		3,2	1.0166	0,3
.403	.401			.56242		.98371	3,2	.0166	
.403	.402	·47735	557	.56789	548	.98374		.0165	
.404	.403	.48292	557	57337	548	.98377		.0165	
.406	•404	.48850	558		549	.98380		.0165	
.406	2,405	5.49408	558	5.58435	549	0.98384	3,2	1.0164	0.3
.407 .50326 560 .50535 551 .08390 3.2 .0164 .408 .51086 561 .60637 552 .08393 3.2 .0163 .409 .51646 561 .60637 552 .08393 3.2 .0163 .411 .52769 562 .61741 553 .08406 3.2 .0162 .411 .52769 562 .61741 553 .08406 3.2 .0162 .412 .53331 562 .62294 553 .08406 3.2 .0162 .413 .53893 563 .62848 554 .08409 3.2 .0162 .414 .54456 563 .63402 554 .08409 3.2 .0162 .415 5.55020 564 .563957 555 0.08415 3.1 .0161 .417 .56149 565 .65085 556 .08412 3.2 .0162 .418 .56715 566 .65085 556 .08422 3.1 .0160 .419 .57280 566 .66181 557 .08428 3.1 .0160 .42420 5.57847 567 5.66739 558 .08433 3.1 .0160 .4242 .58981 568 .67856 559 .08431 3.1 .0160 .4242 .58981 568 .68415 560 .08443 3.1 .0159 .421 .58414 567 .07297 558 .08434 3.1 .0159 .422 .58981 568 .68415 560 .08443 3.1 .0159 .424 .60118 569 .68975 560 .08440 3.1 .0158 .424 .60118 569 .68975 560 .08443 3.1 .0158 .424 .60118 569 .68975 560 .08446 3.1 .0159 .427 .61828 571 .70658 562 .08453 3.1 .0157 .428 .62399 571 .71220 562 .08456 3.1 .0157 .429 .62970 572 .71783 563 .08459 3.1 .0157 .429 .62970 572 .71783 563 .08459 3.1 .0157 .431 .64115 573 .72910 564 .08462 3.1 .0157 .432 .4426 .8688 570 .72935 566 .08447 3.0 .0155 .433 .65262 574 .74039 565 .08458 3.0 .0156 .433 .65262 574 .74039 565 .08469 3.0 .0156 .433 .65836 575 .72465 566 .08477 3.0 .0155 .433 .65262 574 .74039 565 .08498 3.0 .0156 .433 .6688 570 .78586 570 .98498 3.0 .0156 .433 .65262 574 .74039 565 .08499 3.0 .0153 .434 .65836 575 .72465 566 .08477 3.0 .0155 .436 .66986 576 .75738 567 .98480 3.0 .0156 .437 .67563 576 .776873 568 .08499 3.0 .0153 .439 .68716 577 .77441 569 .08492 3.0 .0153 .440 .60872 579 .78880 570 .98498 3.0 .0153 .443 .60872 579 .78880 570 .98498 3.0 .0153 .444 .50872 579 .78880 570 .98498 3.0 .0153 .444 .50872 579 .796873 568 .08499 3.0 .0153 .444 .50872 579 .796873 568 .08499 3.0 .0153 .445 .57211 581 .88802 577 .98591 .98490 3.0 .0153 .446 .72772 581 .88802 577 .98591 3.0 .0153 .447 .73554 582 .88009 573 .98510 3.0 .0151 .448 .73936 583 .82883 574 .98516 2.9 .0151 .446 .72772 581 .88892 577 .98591 2.9 .0150	406	.49967	559	58984	550			.0164	^
.408	407	.50526	560	-59535					
.409	.408		560						
.411									
.411	2.410	5,52207	561	5.61189	552	0.08400	3.2	1.0163	0.3
.412									770
.413									
.414	-			.62848					
.416									
.416	2 115	E 55020	564	5.63057	555	0.08415	2 T	1 0161	0.3
.417									٠,,
.418									
.419			566 566						
2.420									
.421	•419	.5/200	500			.90420	3,1	.0100	
.422	2.420				558		3,1	1.0159	0,3
.423	.421		567	67297	558	.98434	3,1	.0159	
.423	.422	.58981			559	.98437	3,1	.0159	
.424	.423	.59550	568			.98440	3,1	.0158	
.426	.424	.60118	569	.68975	560		3,1	.0158	
.426	2.425	5.60688	570	5.69535	561	0.98446	3,1	1.0158	0,3
.427	.426	.61257	570	.70096	561			.0157	
.428	.427	.61828	571	.70658	562	.98453		.0157	
.429		.62399		.71220	562				
.431									
.431	2.430	5.63542	572	5.72346	564	0.08462	3.1	1.0156	0.3
.432									-,0
.433		.64688							•
.434		65262							
2.435									
.436	•434		. 3/3	.74003			3,0	.0155	3 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
.437	2.435	5.66411							0,3
.438		.00980	570		507				
.439					508				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$									
.441       .69872       579       .78580       570       .98495       3,0       .0153         .442       .70451       570       .79150       570       .98498       3,0       .0152         .443       .71031       580       .79721       571       .98501       3,0       .0152         .444       .71611       580       .80292       572       .98504       3,0       .0152         2.445       5.72191       581       5.80864       572       0.98507       3,0       .0152         .446       .72772       581       .81436       573       .98510       3,0       .0151         .447       .73354       582       .82009       573       .98513       3,0       .0151         .448       .73936       583       .82583       574       .98516       2,9       .0151         .449       .74519       583       .83157       575       .98519       2,9       .0150	•439	.68716	577	•77441	569	.98489	3,0	.0153	
.441     .69872     579     .78580     570     .98495     3,0     .0153       .442     .70451     570     .79150     570     .98498     3,0     .0152       .443     .71031     580     .79721     571     .98501     3,0     .0152       .444     .71611     580     .80292     572     .98504     3,0     .0152       2.445     5.72191     581     5.80864     572     0.98507     3,0     1.0152     0,3       .446     .72772     581     .81436     573     .98510     3,0     .0151       .447     .73354     582     .82099     573     .98513     3,0     .0151       .448     .73936     583     .82583     574     .98516     2,9     .0151       .449     .74519     583     .83157     575     .98519     2,9     .0150			578						0,3
.442     .70451     570     .79150     .79150     .98498     3,0     .0152       .443     .71031     580     .79721     571     .98501     3,0     .0152       .444     .71611     580     .80292     572     .98504     3,0     .0152       2.445     5.72191     581     5.80864     572     0.98507     3,0     1.0152     0,3       .446     .72772     581     .81436     573     .98510     3,0     .0151       .447     .73354     582     .82009     573     .98513     3,0     .0151       .448     .73936     583     .82583     574     .98516     2,9     .0151       .449     .74519     583     .83157     575     .98519     2,9     .0150			579						
.444     .71611     580     .80292     572     .98504     3,0     .0152       2.445     5.72191     581     5.80864     572     0.98507     3,0     1.0152     0,3       .446     .72772     581     .81436     573     .98510     3,0     .0151       .447     .73354     582     .82009     573     .98513     3,0     .0151       .448     .73936     583     .82583     574     .98516     2,9     .0151       .449     .74519     583     .83157     575     .98519     2,9     .0150	.442		579				3,0		
.444     .71611     580     .80292     572     .98504     3,0     .0152       2.445     5.72191     581     5.80864     572     0.98507     3,0     1.0152     0,3       .446     .72772     581     .81436     573     .98510     3,0     .0151       .447     .73354     582     .82009     573     .98513     3,0     .0151       .448     .73936     583     .82583     574     .98516     2,9     .0151       .449     .74519     583     .83157     575     .98519     2,9     .0150	•443				571		3,0		
.446 .72772 581 .81436 573 .98510 3,0 .0151 .447 .73354 582 .82009 573 .98513 3,0 .0151 .448 .73936 583 .82583 574 .98516 2,9 .0151 .449 .74519 583 .83157 575 .98519 2,9 .0150	•444	.71611	580	.80292	572	.98504	3,0	.0152	
.446	2.445						3,0		0,3
.448 .73936 583 .82583 574 .98516 2,9 .0151 .449 .74519 583 .83157 575 .98519 2,9 .0150	.446	.72772				.98510			
.448 .73936 583 .82583 574 .98516 2,9 .0151 .449 .74519 583 .83157 575 .98519 2,9 .0150					573	.98513		.0151	
.449 .74519 583 .83157 575 .98519 2,9 .0150	.448		583			.98516			
2.450   5.75103   584   5.83732   575   0.98522   2.9   1.0150   0.3			583	.83157		.98519		.0150	
	2.450	5.75103	584	5.83732	575	0.98522	2,9	1.0150	0,3

e u 🥳	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.450 .451 .452 .453 .454	5.75103 .75687 .76271 .76856 .77442	584 584 585 585 586	5.83732 .84307 .84883 .85460 .86037	575 576 576 577 577	0.98522 .98525 .98528 .98530 .98533	2,9 2,9 2,9 2,9 2,9	1.0150 .0150 .0149 .0149 .0149	0,3
2.455 .456 .457 .458 .459	5.78029 .78615 .79203 .79791 .80380	587 587 588 588 589	5.86615 .87193 .87772 .88352 .88932	578 579 579 580 580	0.98536 .98539 .98542 .98545 .98548	2,9 2,9 2,9 2,9 2,9	1.0149 .0148 .0148 .0148 .0147	0,3
2.460 .461 .462 .463 .464	5.80969 .81559 .82149 .82740 .83332	590 590 591 591 592	5.89512 .90094 .90675 .91258 .91841	581 582 582 583 583	0.98551 .98554 .98556 .98559 .98562	2,9 2,9 2,9 2,9 2,9	1.0147 .0147 .0146 .0146 .0146	0,3
2.465 .466 .467 .468 .469	5.83924 .84516 .85110 .85704 .86298	592 593 594 594 595	5.92425 .93009 .93594 .94179 .94765	584 585 585 586 586	0.98565 .98568 .98571 .98574 .98576	2,8 2,8 2,8 2,8 2,8	1.0146 .0145 .0145 .0145 .0144	0,3
2.470 .471 .372 .473 .474	5.86893 .87489 .88085 .88682 .89279	595 596 597 597 498	5.95352 .95939 .96527 .97115 .97704	587 587 588 589 589	0.98579 .98582 .98585 .98588 .98590	2,8 2,8 2,8 2,8 2,8	1.0144 .0144 .0144 .0143	0,3
2.475 .476 .477 .478 .479	5.89877 .90476 .91075 .91675 .92275	598 599 599 600 601	5.98294 .98884 .99474 6.00066 .00658	590 591 591 592 592	0.98593 .98596 .98599 .98602 .98604	2,8 2,8 2,8 2,8 2,8 2,8	1.0143 .0142 .0142 .0142 .0142	0,3
2.480 .481 .482 .483 .484	5.92876 .93478 .94080 .94682 .95286	601 602 602 603 604	6 .01250 .01844 .02437 .03032 .03627	593 593 594 595 595	0.98607 .98610 .98613 .98615	2,8 2,8 2,8 2,7 2,7	1.0141 .0141 .0141 .0140 .0140	0,3
2.485 .486 .487 .488 .489	5.95890 .96494 .97099 .97705 .98311	604 605 605 606 607	6.04222 .04818 .05415 .06013 .06611	596 596 597 598 598	0.98621 .98624 .98626 .98629 .98632	2,7 2,7 2,7 2,7 2,7 2,7	1.0140 .0140 .0139 .0139	0,3
2.490 .491 .492 .493 .494	5.98918 .99526 6.00134 .00743 .01352	607 608 608 609 610	6.07209 .07809 .08408 .09009 .09610	599 600 601 601	0.98635 .98637 .98640 .98643	2,7 2,7 2,7 2,7 2,7	1.0138 .0138 .0138 .0138	0,3
2.495 .496 .497 .498 .499	6.01962 .02572 .03183 .03795	610 611 611 612 613	6.10211 .10814 .11417 .12020 .12624	602 603 603 604 604	0.98648 .98651 .98653 .98656	2,7 2,7 2,7 2,7 2,7	1.0137 .0137 .0136 .0136	0,3
2.500	6.05020	613	6.13229	605	0.98661	2,7	1.0136	0,3
n (0.5.0)	tan gd u	ω.Fo'	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	∞ F <sub>0</sub> ′
2	.500	6.05020	613	6.13229	605	0.98561	2,7	1.0136	0,3
	501	.05634	614	13834	605	.98564	2,7	.0135	
	.502	.05248	614	. 14440	<b>60</b> 5	.98567	2,6	.0135	
	503	.06863	615	15047	607	98669	2,6	.0135	
	.504	.07478	616	. 15654	607	.98672	2,6	.0135	
2	.505	6.08094	616	6.16262	608	0.98675	2,6	1.0134	0,3
_	.506	.08711	617	. 16870	609	.98677	2,6	.0134	9,0
	.507	.09328	617	17479	609	.98580	2,6	.0134	
	.508	.09946	618	18089	610	.98583	2,6	.0134	
	.509	10564	619	. 18699	611	.98685	2,6	.0133	
2	.510	6.11183	619	6. 19310	611	0.98688	2,6	1.0133	0,3
	.511	.11803	620	19921	612	.98590	2,6	.0133	-,0
	.512	.12423	621	.20534	612	.98593	2,6	.0132	
	.513	13044	621	.21146	613	98596	2,6	.0132	
	.514	.13665	622	.21760	614	.98698	2,6	.0132	
2	.515	6.14287	622	6.22374	614	0.98701	2,6	1.0132	0,3
	.516	.14910	623	.22988	615	.98703	2,6	.0131	9,3
	.517	15533	624	.23603	616	.98705	2,6	.0131	
	.518	.16157	624	.24219	616	.98708	2,6	.0131	
	.519	16782	625	.24836	617	98711	2,6	.0131	
	. 520	6.17407	625	6.25453	617	0.98714	26	T 0700	
_	.520	18033	625 626	26071	617 618	.98716	2,6 2,6	1.0130	0,3
	.521	.18659	627	.26689	619	.98710		.0130	and agency
	.522	.10059	607	.27308	619		2,5	.0130	
	.523		627 628		620	.98721	2,5	.0130	
	.524	.19914	020	.27927	020	.98724	2,5	.0129	
2	.525	6.20542	629	6.28548	621	0.98726	2,5	1.0129	0,3
	.526	.21171	629	.29169	621	.98729	2,5	.0129	
	.527	.21800	630	.29790	622	.98731	2,5	.0128	
	.528	.22430	630	.30412	622	98734	2,5	.0128	
	.529	.23061	631	31035	623	.98736	2,5	.0128	1
2	2.530	6.23692	632	6.31658	624	0.98739	2,5	1.0128	0,3
	.531	.24324	632	.32282	624	.98741	2,5	.0127	1
	.532	.24957	633	.32907	625	98744	2,5	.0127	
	·533	.25590	634	33532	625 626	.98746	2,5	.0127	1
	•534	.26224	634	.34158	626	98749	2,5	.0127	
2	• 535	6.26858	635	6.34785	627	0.98751	2,5	1.0126	0,3
_	.536	.27494	635	35412	627	.98754	2,5	.0126	5,3
	537	.28129	635 636	36040	628	.98756	2,5	.0125	ļ
	·537 ·538	. 28766	637	.36668	629	.98759	2,5	.0126	
	•539	.29403	637	-37297	629	98761	2,5	.0125	
	2.540	6.30040	638	6.37927	630	0.98764	2,5	1.0125	0.2
_	.541	.30678	639	38557	631	98766	2,5	.0125	0,3
	.542	31317	639	.39188	631	98769	2,4	.0125	
	.543	31957	640	.39820	632	.98709	2,4	.0125	0,3
	.544	.32597	640	40452	633	.98773	2,4	.0124	0,3
	EAE	6.33238	641	6.41085	633	0.98776	2.	T ATA	vojskrastik 0.2
2	545 546	33879	642	.41719	634	.98778	2,4 2,4	I.0124 .0124	wystra≠12 <b>0,2</b>
	.547	34521	642	.42353	635	98781		.0124	
	.548	35164	643	.42988	635	98783	2,4	.0123	}
. 3	•549	35807	644	43623	636	98786	2,4	.0123	
2	2.550	6.36451	644	6.44259	636	0.98788	2,4	1.0123	0.2
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ΄	coth ù	ω F <sub>0</sub> ′
2.550	6.36451	644	6.44259	636	0.98788	2,4	1.0123	0,2
.551	37096	645	.44896	637	.98790	2,4	.0122	
.552	.37741	646	.45533	638	98793	2,4	.0122	
•553	.38387	646	.46172	638	.98795	2,4	.0122	7
•554	.39033	647	.46810	639	.98798	2,4	.0122	
1			6 4-440	640	0.98800		1.0121	
2.555	6.39680	647	6.47450		.98802	2,4	.0121	0,2
.556	.40328	648	.48090	640	.98802	2,4		
•557	40977	649	.48730	641		2,4	.0121	
.558 .559	.41626 .42275	649 650	.49372 .50014	642 642	.98807 .98810	2,4 2,4	.0121	Å.
2.560	6.42926	651	6.50656	643	0.98812	2,4	1.0120	0,2
.561	·43577	651	51299	644	.08814	2,4	.0120	·,-
.562	.44228	652	.51943	644	.98817	2,4	.0120	
	.44880		.52588	645	.98819	2,3	.0120	197.18
. 563 . 564	·45533	653 653	.53233	646	.98821	2,3	.0119	
			1.5274		-	_	_	
2.565 .566	6.46187 .46841	654 655	6.53879	646 647	0.98824 .98826	2,3 2,3	0110	0,2
.567	.40641	655	•54525 •55173	647	.98828	2,3	.0119	
.568	.48152	656	.55820	648	.98831	2,3	.0118	B. 1
.569	.48808	656	.55626	649	.98833	2,3	.0118	
"				100				÷ .
2.570	6.49464	657	6.57118	649	0.98835	2,3	8110.1	0,2
.571	.50122	658	.57768	650	.98838	2,3	.0118	
.572	. 50780	658	. 58418	651	.98840	2,3	.0117	
-573	. 51439	659	.59069	651	.98842	2,3	.0117	10 1
•574	. 52098	660	.59721	652	.98845	2,3	.0117	# St 25 71
2.575	6.52758	66q	6.60374	653	0.98847	2,3	1.0117	0,2
.576	.53419	661	.61027	653	.98849	2,3	.0116	
.577	. 54080	662	.61680	654	.98851	2,3	.0116	Albert Fra
· 577	.54742	662	.62335	655	.98854	2,3	.0116	1
-579	55405	663	.62990	655	.98856	2,3	.0116	1 3 3 3 3
2.580	6.56068	664	6.63646	656	0.08858	2,3	1.0115	0,2
.581	.56732	664	.64302	657	98860	2,3	.0115	
.582		665	.64959	657	.08863	2,3	.0115	\$
502	•57397	666	.65617	658	98865	2,3	.0115	
.583	.58062 .58728	666	.66275	659	.98867	2,3	.0115	l g
					0.98870			
2.585	6.59395	667	6.66934	659		2,2	1.0114	0,2
. 586	.60062	668 668	.67594 .68254	660 661	.98872	2,2	.0114	¥.
.587	60730		.08254			2,2	.0114	
.588	61398	669	.68915	661	98876 98878	2,2	.0114	ld y la
.589	.62068	670	.69577	662		2,2	.0113	1
2.590	6.62738	670	6.70240	663	0.98881	2,2	1,0113	0,2
.591	.63408	671	.70903	663	.98883	2,2	.0113	H
.592	.64079	672	.71566	664	.98885	2,2	.0113	8
.593	.64751	672	.72231	665	.98887	2,2	.0113	
•594	.65424	673	.72896	665	.98890	2,2	.0112	
2.595	6.66097	674	6.73562	666	0.98892	2,2	1.0112	0,2
.596	.66771	674	.74228	667	.98894	2,2	.0112	#
.597	.67446	675	.74895	667	.98896	2,2	.0112	Miller of the Control
.598	.68121	676	.75563	668	.98898	2,2	.0111	
.599	.68797	676	.76231	669	.98901	2,2	.0111	
2.600	6.69473	677	6.76901	669	0.58503	2,2	1.0111	0,2
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

SMITHSONIAN TABLES

					Charles and the second services and			
u	sinh u	ω F <sub>6</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.600	6.69473	677 678	6.76901	669	0.98903	2,2	1.0111	0,2
.601	.70150	678	-77570	670	98905	2,2	.0111	, ,,,,
.602	70828	678	78241	671	.98907	2,2	.0110	
.603	.71507	670	.78912	672	.98909	2,2	.0110	
.604	.72186	679 680	79584	672	.98911	2,2	.0110	İ
	·					,		
2.605	6.72866	680	6.80256	673	0.98914	2,2	1.0110	0,2
.606	•73547	681	.80930	674	.98916	2,2	.0110	
.607	.74228	682	.81604	674	.98918	2,2	.0109	
.608	.74910	682	.82278	675 676	.98920	2,1	.0109	1
.609	•75593	683	.82953	070	.98922	2,1	.0109	
2.610	6.76276	684	6.83629	676	0.98924	2,1	1.0100	0,2
.611	76960	684	.84306	677	.98926	2,1	.0100	0,2
.612	77644	685	84983	678	.98929	2,1	.0108	I
.613	.78330	686	.85661	678	.98931	2,1	8010.	1
.614	.79016	686	.86340	679	.98933	2,1	.0108	
							_	
2.615	6.79702	687	6.87019	680	0.98935	2,1	1.0108	0,2
.616	.80390	688	.87699	680	.98937	2,1	.0107	
.617	.81078	688	.88380	681	.98939	2,1	.0107	1
.618	.81767	689	.89061	682 682	.98941	2,1	.0107	l
.619	.82456	690	.89744	682	.98943	2,1	.0107	
2.620	6.83146	690	6.90426	683	0.98946	2,1	1.0107	0,2
.621	.83837	691	.91110	684	.98948	2,1	.0106	, ,,,
.622	.84528	692	.91794	685	.98950	2,1	.0106	
.623	85220	692	92479	685	.98952	2,1	.0106	
.624	.85913	693	.93164	685 686	.98954	2,1	.0106	1
1				١.		,.	.0100	
2.625	6.86607	694	6.93851	687	0.98956	2, I	1.0106	0,2
.626	.87301	695	.94538	687	.98958	2,1	.0105	
.627	.87996	695	.95225	688	.98960	2,1	.0105	İ
.628	88691	696	.95914	689	.98962	2,1	.0105	1
.629	89388	697	.96603	689	98964	2,1	.0105	
2.630	6.90085	697	6.97292	690	0.98966	2,1	1.0104	0,2
.631	.90782	698	.97983	691	98968	2,1	.0104	0,2
.632	.91481	699	.98674	691	.98970	2,0	.0104	i
.633	.92180	699	.99366	692	.98972	2,0	.0104	
.634	.92879	700	7.00058	693	98974	2,0	.0104	
1		,00	7.0000	×90		2,0	10104	l
2.635	6.93580	701	7.00752	694	0.98977	2,0	1.0103	0,2
.636	.94281	701	.01446	694	.98979	2,0	.0103	ì
.637	.94983	702	.02140	695	98981	2,0	.0103	
.638	.95685	703	.02835	696	.98983	2,0	.0103	]
.639	.96388	704	.03532	696	.98985	2,0	•0103	
2.640	6.97092	704	7.04228	697	0.98987	2,0	1.0102	0,2
.641	97797	705	.04926	698	.98989	2,0	.0102	٠,2
.642	.98502	706	.05624	699	.98991	2,0	.0102	
.643	.99208	706	.06323	699	.98993	2,0	.0102	
.644	.99915	707	.07022	700	.98995	2,0	.0102	
				·				
2.645	7.00622	708	7.07723	701	0.98997	2,0	1.0101	0,2
.646	01330	708	.08423	701	. 98999	2,0	.0101	
.647	.02039	709	.00125	702	.99001	2,0	1010.	
.648	.02748	710	.09828	703	99003	2,0	10101	
.649	.03458	711	.10531	703	.99005	2,0	·oioi	
2.650	7.04169	711	7.11234	704	0.99007	2,0	1.0100	0,2
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′′

Ī	u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
	2.650	7.04169	711	7.11234	704	0.99007	2,0	1.0100	0,2
	.651	.04881	712	.11939	705 706	.99009	2,0	.0100	l
	.652	.05593	713	.12644	706	.99013	2,0 2,0	.0010.	
	.653 .654	.06306	713 714	.13350	707	.99015	2,0	.0100	
	2.655	7.07734	715	7.14764	708	0.99016	2,0	1.0099	0,2
	.656	.08449	715	.15472	708	.99018	2,0	.0099	
ı	.657	.09165	716	.16181	709	.99020	1,9	.0099	l l
ı	.658 .659	.09882	717 718	. 16891 . 17601	710 711	.99022	1,9 1,9	.0099	
I	2.660	7.11317	718	7.18312	711	0.99026	1,9	1.0098	0,2
П	.661	.12036	719	. 19024	712	.99028	1,9	.0098	
П	.662	.12755	720	. 19736	713	.99030	1,9	.0098	i i
П	.663	13475	720	•20449	713	.99032	1,9	.0098	
۱	.664	.14196	721	.21163	714	99034	1,9	.0098	
I	2.665	7.14918	722	7.21877	715 716	0.99036 .99038	1,9	1.0097	0,2
Н	.667	. 15640 . 16363	723 723	.22593	716 716	.99036	I,9 I,9	.0097	}
	.668	.17086	724	.24025	717	99042	1,9	.0097	
ı	.669	.17811	725	.24743	718	99044	1,9	.0097	
	2.670	7.18536	725	7.25461	719	0.99045	1,9	1.0096	0,2
I	.671	. 19262	726	.26180	719	.99047	1,9	,0096	
	.672	19988	727	.26900	720	.99049	1,9	.0096	-
1	.673	.20715	728	.27620	721	.99051	1,9	.0096	
	.674	.21443	728	.28341	721	.99053	1,9	.0096	
ı	2.675	7.22172	729	7.29063	722	0.99055	1,9	1.0095	0,2
Н	.676	.22902	730	. <i>2</i> 9785	723	.99057	1,9	.0095	
ı	.677	.23632	731	.30509	724	.99059	1,9	.0095	
П	.678	.24363	731	.31233	724	.99060	1,9	.0095	
	.679	.25094	732	.31957	725	99062	1,9	.0095	Jan Sabay
	2.680	7.25827	733	7.32683	726	0.99064	1,9	1.0094	0,2
I	.681	.26560	733	.33409	727	.99066	1,9	.0094	
1	.682	.27293	734	.34136	727	.99068	1,9	.0094	
	.683 .684	.28028 .28763	735 736	.34864 .35592	728 729	.99070	1,9 1,8	.0094 .0094	
	2.685	7.29499	736	7.36321	729	0.99073	1,8	1.0094	-0,2
	.686	.30236	737	.37051	730	.99075	1,8	.0093	-,-
П	.687	30973	738	.37782	731	99077	1,8	.0093	
I	.688	.31711	739	.38513	732	99079	1,8	.0093	
	.689	.32450	739	.39245	732	.99081	1,8	.0093	
	2.690	7.33190	740	7.39978	733	0.99083	1,8	1.0093	0,2
	.691	.33930	741	.40711	734	.99084	1,8	.0092	
	.692	34671	741	.41446	735	99086	1,8	.0092	
	693	35413	742	.42181	735	.99088	1,8 1,8	.0092	
1	.694	.36156	743	.42917	736	1		_	Pari i disen
ı	2.695	7.36899	744	7.43653	737	0.99092	1,8	1.0092	0,2
ı	.696	.37643	744	44390	738	99094	1,8 1,8	.0001	as talen
1	.697 .698	.38388	745 746	.45128	738	99095	T &	.0001	
	.699	.39133 .39879	747	.46607	739 740	.99099	1,8 1,8	.0091	
	2.700	7.40626	747	7.47347	741	0.99101	1,8	1.0091	0,2
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

SMITHSONIAN TABLES

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω Fo'	coth u	ω F <sub>0</sub> ′
2.700	7.40626	747	7.47347	741	0.99101	1,8	1.0001	0,2
.701	.41374	748	.48088 .48830	741	.99103	1,8	.0091	
.702	.42122	749		742	.99104	1,8	.0000	
.703	.43622	750 750	.49572 .50315	743 744	.99100	1,8 1,8	.0090 .0090	:
.,04	.43022	750	.30313	744	.99100	1,0	.0090	
2.705	7.44372	75I	7.51059	744	0.99110	1,8	1.0000	0,2
.706	.45124	752	.51804	745	.99111	1,8	.0090	
.707	45876	753	52550	746	.99113	1,8	0089	lag sym salah 🖠
.708	.46629	753	.53296	747	.99115	1,8	.0089	
.709	.47383	<i>7</i> 54	.54043	747	.99117	1,8	.0089	
2.710	7.48137	755	7.54791	748	81100.0	1,8	1.0080	0,2
.711	.48892	756	•55539	749	.99110	1,8	.0089	0,2
.712	.49648	756	56288	750	.99122	1,7	.0089	
.713	. 50405	757	57038	750	.99124	1,7	.0088	
.714	51162	758	.57789	751	.99125	1,7	.0088	
			0				00	
2.715	7.51920	759	7.58541	752	0.99127	1,7	1.0088 .0088	0,2
.716	.52679 .53439	759 760	.59293 .60046	753 753	.99129	I,7 I,7	.0088	
.717		761	60800		.99131		.0088	
.719	. 54199 . 54960	762	.61555	754 755	.99132 .99134	1,7 1,7	.0087	
.,19	1 34900				199104	-97		
2.720	7.55722	762	7.62310	756	0.99136	1,7	1.0087	0,2
.721	. 56485	763	.63066	756	.99138	1,7	.0087	
.722	.57249	764	.63823	757	.99139	1,7	.0087	
.723	.58013	765	.64580	758	.99141	1,7	.0087	)
.724	.58778	<i>7</i> 65	.65339	<i>7</i> 59	99143	1,7	.0086	
2.725	7 . 59543	766	7.66098	760	0.99144	1,7	1.0086	0,2
.726	.60310	767	.66858	760	.99146	1,7	.0086	, ,
.727	.61077	768	.67619	761	.99148	1,7	.0086	
.728	.61845	768	.68380	762	.99150	1,7	.0086	
.729	.62614	769	.69142	763 ·	.99151	1,7	.0086	
2.730	7.63383	770	7.69905	763	0.99153	1,7	1.0085	0,2
.731	.64154	771	.70669	764	99155	1,7	.0085	-,-
.732	.64925	771	71434	765	.99156	1,7	.0085	:
-733	.65697	772	.72199	766	.99158	1,7	.0085	
-734	.66469	773	.72965	766	.99160	1,7	.0085	
2.735	7.67242	774	7.73732	767	0.99161	1,7	1.0085	0,2
.736	.68017	774	74500	768	99163	1,7	.0084	2,2
-737	68791	775	.75268	769	.99165	1,7	.0084	
.738	69567	776	.76037	770	.99165	1,7	.0084	
•739	.70344	777	76807	770	.99168	1,7	.0084	,
2.740	7.71121	778	7.77578	771	0.99170	1,7	1.0084	0,2
.741	71899	778	.78349	772	.99170	1,7	.0084	.0,2
.742	.72677	779	79122	773	.99173	1,6	.0083	
.743	73457	780	79895	773	.99175	1,6	.0083	
•744	.74237	781	80668	774	.99176	1,6	.0083	
2 745	7.75018	721	7.81443	775	0.99178	1,6	1.0083	0,2
2.745 .746	.75800	781 782	.82219	775 776	.99178	1,6	.0083	0,2
.747	.76583	783	.82995	777	.99179	1,6	.0083	
.748	.77366	784	.83772		.99183	1,6	.0082	
.749	.78150	785	.84549	777 778	.99184	1,6	.0082	
2.750	7.78935	785	7.85328	779	0.99186	1,6	1.0082	0,2
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

	U	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
	2.750	7.78935	785	7.85328	779 780	0.99186	1,6	1.0082	0,2
	.751	.79721	786	.86107	780	.99188	1,6	.0082	
	.752	.80507	787	.86887	781	.99189	1,6	.0082	
ı	•753	.81295	788	.87668	781	.99191	1,6	.0082	
	•754	.82083	788	.88450	782	.99192	1,6	1800.	
	2.755	7.82872	<i>7</i> 89	7.89232	783	0.99194	1,6	1.0081	0,2
H	.756	.83661	790	.90016	784	.99196	1,6	.0081	
	•757	.84452	791	90800	784	.99197	1,6	1800.	
	.758	.85243 .85035	792	.91585	785 786	.99199	1,6 1,6	1800.	
	•759		792	.92370		.99200	1,0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
	2.760	7.86828	793	7.93157	787	0.99202	1,6	1.0080	0,2
	.761	.87621	794	•93944	788	.99204	1,6	.0080	
	.762	.88415	795	.94732	788	.99205	1,6	.0080	
	.763	.89211	796	.95521	789	.99207	1,6	.0080	
	.764	.90006	796	.96310	<i>7</i> 90	.99208	1,6	.0000	
	2.765	7.90803	797	7.97101	791	0.99210	1,6	1.0080	0,2
	.766	.91601	798	.97892	792	.99212	1,6	.0079	
H	.767	.92399	799	98684	792	.99213	1,6	.0079	
	.768 .769	.93198	799 800	.99477 8.00270	793	.99215	1,6 1,6	.0079	
	.709	.93998	, soc	0.002/0	<b>7</b> 94	199210	1,0	.0079	
	2.770	7 • 94799	801	8.01065	<i>7</i> 95	0.99218	1,6	f.0079	0,2
	.771	.95600	802	.01860	796	.99219	1,6	.0079	+ 1 L
	.772	.96402	803	.02656	796	.99221	1,6	.0079	
	•773	.97205	803	.03453	797	.99222	1,5	.0078	
	• <i>77</i> 4	.98009	804	.04250	798	.99224	1,5	.0078	
N	2.775	7.98814	805	8.05049	799	0.99226	1,5	1.0078	0,2
1	• <i>77</i> 6	.99619	806	.05848	800	.99227	1,5	.0078	
	•777	8.00426	807	.06648	800	.99229	1,5	.0078	
	·778	.01233	807	.07449	801	.99230	1,5	.0078	
	· <i>77</i> 9	.02040	808	.08251	802	.99232	1,5	.0077	
H	2.780	8.02849	809	8.09053	803	0.99233	1,5	1.0077	0,2
ľ	.781	.03659	810	.09856	804	.99235	1,5	.0077	
	.782	.04469	811	.10660	804	.99236	1,5	.0077	
	.783	.05280	811	.11465	805	.99238	1,5	.0077	
	.784	.06092	812	.12271	806	99239	1,5	.0077	
H	2.785	8.06904	813	8.13077	807	0.99241	1,5	1.0077	0,2
H	<b>.</b> 786	.07718	814	.13885	808	.99242	1,5	.0076	
	.787	.08532	815	14693	809	.99244	1,5	.0076	
	.788	.09347	816	.15502	809	.99245	1,5	.0076	
H	.789	.10163	816	.16311	810	.99247	1,5	.0076	
	2.790	8.10980	817	8.17122	81.1	0.99248	1,5	1.0076	0,2
	.791	11797	818	. 17933	812	.99250	1,5	.0076	
	.792	.12616	819	. 18746	813	.99251	1,5	.0075	
	•793	13435	820	. 19559	813	.99253	1,5	0075	
	· <i>7</i> 94	14255	820	20373	814	99254	1,5	.0075	
	2.795	8.15076	821	8.21187	815	0.99256	1,5	1.0075	0,2
ı	.796	.15897	822	.22003	816	.99257	1,5	.0075	0,2
	·797	16720	823	.22819	817	.99259	1,5	.0075	0,2
	.798 .799	.17543 .18367	824 824	.23636 .244 <b>5</b> 4	818 818	.99260 .99262	1,5 1,5	.0075	0,2 0,1
			1						l li
	2.800	8.19192	825	8.25273	819	0.99263	1,5	1.0074	0,1
	U	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> /

2.800	1.801	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	sinh u	u
.801         .20084         826         .26092         820         .99265         1,5         .0074           .802         .20844         827         .26013         821         .99266         1,5         .0074           .803         .21671         828         .27734         822         .99269         1,5         .0074           .804         .22499         829         .28550         822         .99269         1,5         .0074           2.805         8.23328         829         8.29379         823         0.99275         1,5         .0073           .807         .24980         831         .31027         825         .99275         1,4         .0073           .809         .26553         833         .32679         827         .99276         1,4         .0073           2.810         8.27486         834         8.33506         827         .99279         1,4         .0073           2.810         8.27486         834         8.33506         827         .99279         1,4         .0072           2.811         .35920         836         .35928         830         .99281         1,4         .0072           2.815 <td< td=""><td>  1.801</td><td>0.</td><td>1.0074</td><td>1.5</td><td>0.99263</td><td>819</td><td>8.25273</td><td>825</td><td>8.10102</td><td>2.800</td></td<>	1.801	0.	1.0074	1.5	0.99263	819	8.25273	825	8.10102	2.800
8.8c    .2084	802	•	.0074							
.803         .21671         828         .27734         822         .99269         1,5         .0074           .804         .22499         829         829379         823         .99269         1,5         .0074           2.805         8.23328         829         8.29379         823         0.99270         1,5         .0073           .807         .24989         831         .31027         825         .99273         1,4         .0073           .807         .24989         831         .31027         825         .99273         1,4         .0073           .809         .26653         833         .32609         827         .99276         1,4         .0073           .811         .28320         834         8.33506         827         .99279         1,4         .0073           .812         .29154         835         .33502         829         .99281         1,4         .0072           .812         .29154         835         .33502         830         .99285         1,4         .0072           2.815         8,31664         838         8,37654         832         .099285         1,4         1.0072         0,           8.8	.803									
.804         .22499         829         .28556         822         .99269         1,5         .0074           2.805         8.23328         839         8.20379         823         0.99270         1,5         1.0073         0.2864           .807         .24989         831         .31027         825         .99275         1,4         .0073           .808         .25620         812         .31853         826         .99275         1,4         .0073           2.810         8.27486         834         8.33506         827         .99276         1,4         .0073           2.811         .28320         834         8.33506         827         .99279         1,4         .0073           .811         .29154         835         .35103         829         .99281         1,4         .0072           .813         .29090         836         .35092         830         .99282         1,4         .0072           .813         .29090         836         .35092         830         .99285         1,4         1.0072         0,           .814         .30521         838         .3486         833         .99285         1,4         1.0072         <	.804         .22499         829         .28556         822         .99269         1,5         .0074           2.805         8.23328         830         8.29379         823         0.99270         1,5         1.0073         0;           .807         2.4989         831         .31027         825         .99275         1,4         .0073           .808         2.5620         832         .31853         826         .99275         1,4         .0073           .808         2.5620         834         .34334         826         .99275         1,4         .0073           .811         .28320         834         .34334         826         .99279         1,4         .0073           .811         .28320         834         .34334         828         .99290         1,4         .0072           .814         .30826         837         .30823         831         .99281         1,4         .0072           2.815         8.31664         838         837654         832         .09285         1,4         1.0072           2.815         8.31662         838         .38486         833         .99289         1,4         .0072           2.8				.99268	822		828		
.866         .24188         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31072         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           2.810         8.27486         834         834334         826         .90270         1,4         .0073           2.811         .28320         834         .34334         826         .90270         1,4         .0073           .811         .28320         834         .34334         829         .90281         1,4         .0072           .813         .29090         836         .35902         830         .99282         1,4         .0072           .816         .330826         837         .36823         831         .90285         1,4         .0072           2.815         8,31664         838         8,37654         832         0.90285         1,4         .0072           2.815         8,31664         838         8,37654         832         0.90285         1,4         .0072           2.815 <t< td=""><td>.866         .24158         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31072         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           2.810         8.27486         834         83350         827         .99276         1,4         .0073           2.810         8.27486         834         83350         829         .99278         1,4         .0073           2.812         .29154         835         .35163         829         .99281         1,4         .0072           .813         .29080         836         .35902         830         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         .99285         1,4         .0072           2.815         8.33562         837         .3684         .99285         1,4         .0072           2.816         .35502         &lt;</td><td></td><td></td><td></td><td>.99269</td><td></td><td></td><td></td><td></td><td></td></t<>	.866         .24158         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31072         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           2.810         8.27486         834         83350         827         .99276         1,4         .0073           2.810         8.27486         834         83350         829         .99278         1,4         .0073           2.812         .29154         835         .35163         829         .99281         1,4         .0072           .813         .29080         836         .35902         830         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         .99285         1,4         .0072           2.815         8.33562         837         .3684         .99285         1,4         .0072           2.816         .35502         <				.99269					
.866         .24188         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31077         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           .809         .26653         833         .32679         827         .99276         1,4         .0073           2.810         8.27486         834         834334         828         .90279         1,4         .0073           8.811         .38320         834         .34334         829         .90281         1,4         .0072           .813         .29990         836         .35902         830         .90282         1,4         .0072           2.815         8,31664         838         8,37654         832         .090285         1,4         .0072           2.815         8,31664         838         8,37654         832         .090285         1,4         .0072           2.815         8,31680         838         .3665         833         .90285         1,4         .0072           2.815 <t< td=""><td>.866         .24158         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31072         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           2.810         8.27486         834         83350         827         .99276         1,4         .0073           2.811         .32502         834         .34334         828         .90279         1,4         .0073           3.812         .29154         835         .35163         829         .90281         1,4         .0072           8.814         .30826         837         .35082         830         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815</td><td>Ο,</td><td>1.0073</td><td>1,5</td><td>0.99270</td><td>823</td><td>8.29379</td><td>829</td><td>8.23328</td><td>2.805</td></t<>	.866         .24158         830         .30203         824         .90272         1,5         .0073           .807         .24980         831         .31072         825         .90273         1,4         .0073           .808         .25820         832         .31853         826         .90275         1,4         .0073           2.810         8.27486         834         83350         827         .99276         1,4         .0073           2.811         .32502         834         .34334         828         .90279         1,4         .0073           3.812         .29154         835         .35163         829         .90281         1,4         .0072           8.814         .30826         837         .35082         830         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815	Ο,	1.0073	1,5	0.99270	823	8.29379	829	8.23328	2.805
.808         .25820         832         .31833         826         .00275         I.4         .0073           2.810         8.27486         834         8.33506         827         .09276         I.4         .0073           2.810         8.27486         834         833506         827         0.99278         I.4         1.0073         0;           8.811         .28320         834         .34334         828         .99279         I.4         .0072           8.813         .29900         836         .35503         820         .99281         I.4         .0072           8.814         .30826         837         .36823         831         .99285         I.4         .0072           2.815         8.31664         838         8.37654         832         0.99285         I.4         .0072           2.816         .335021         838         .38486         833         .99286         I.4         .0072           2.826         8.35862         842         8.41823         .99291         I.4         .0071           2.820         8.35862         842         8.41823         .99291         I.4         .0071           2.820         8.35862 <td>.868         .25800         832         .31833         826         .90275         I.4         .0073           2.810         8.27486         834         8.35906         827         .99276         I.4         .0073           2.810         8.27486         834         8.33506         827         0.99278         I.4         1.0073         0,           .811         .28320         834         .34334         828         .99279         I.4         .0072           .812         .29154         835         .35163         829         .99281         I.4         .0072           .813         .29900         836         .35902         831         .99282         I.4         .0072           2.815         8.31664         838         8.37654         832         0.99285         I.4         .0072           2.815         8.31664         338         8.38496         833         .99286         I.4         .0072           2.815         8.31840         34053         33919         833         .99298         I.4         .0072           2.820         8.35862         842         8.41823         .99291         I.4         I.0071         0,</td> <td></td> <td>.0073</td> <td>1,5</td> <td>.99272</td> <td></td> <td></td> <td>830</td> <td>.24158</td> <td>.806</td>	.868         .25800         832         .31833         826         .90275         I.4         .0073           2.810         8.27486         834         8.35906         827         .99276         I.4         .0073           2.810         8.27486         834         8.33506         827         0.99278         I.4         1.0073         0,           .811         .28320         834         .34334         828         .99279         I.4         .0072           .812         .29154         835         .35163         829         .99281         I.4         .0072           .813         .29900         836         .35902         831         .99282         I.4         .0072           2.815         8.31664         838         8.37654         832         0.99285         I.4         .0072           2.815         8.31664         338         8.38496         833         .99286         I.4         .0072           2.815         8.31840         34053         33919         833         .99298         I.4         .0072           2.820         8.35862         842         8.41823         .99291         I.4         I.0071         0,		.0073	1,5	.99272			830	.24158	.806
.808       .25820       832       .31833       826       .99275       I.4       .0073         2.810       8.2653       834       8.3506       827       .99276       I.4       .0073         2.810       8.2486       834       8.33506       827       .99279       I.4       .0073         8.811       .28320       834       .34334       828       .99270       I.4       .0072         8.814       .29050       836       .35902       830       .99281       I.4       .0072         8.814       .30826       837       .36823       831       .99285       I.4       .0072         2.815       8.31664       838       8.37654       832       0.99285       I.4       .0072         2.816       .32502       838       .38486       833       .99286       I.4       .0072         2.818       .34180       840       .40153       834       .99286       I.4       .0072         2.820       8.35862       842       8.41823       836       .99291       I.4       .0071         2.820       8.35862       842       8.41823       836       .99291       I.4       .0071	.808         .25820         832         .31853         826         .99275         I.4         .0073           2.810         8.27486         834         8.33506         827         .99276         I.4         .0073           2.811         .28520         834         8.33506         827         .99279         I.4         .0073           8.812         .29154         835         .35163         829         .99281         I.4         .0072           8.813         .29990         836         .355902         830         .99282         I.4         .0072           8.814         .30826         837         .36823         831         .99285         I.4         .0072           2.815         8.31664         838         8.37654         832         0.99285         I.4         .0072           2.816         .32502         838         .38486         833         .99285         I.4         .0072           2.818         .34180         840         .40153         834         .99280         I.4         .0072           2.820         8.35862         842         8.41823         836         0.99291         I.4         .0071         0,		.0073	1,4	.99273	825	.31027	831	.24989	.807
.809       .26653       833       .32679       827       .99276       I.4       .0073         2.810       8.27486       834       8.33506       827       0.99278       I.4       1.0073       0;         .811       .28320       834       3.34334       828       .99229       I.4       .0073       3.813         .812       .29154       835       .35163       829       .99281       I.4       .0072         .813       .29090       836       .35992       830       .99282       I.4       .0072         .814       .30826       837       .36823       831       .99285       I.4       .0072         2.815       8.31664       838       837654       832       0.99285       I.4       .0072         2.817       .33341       839       .30319       833       .99285       I.4       .0072         .817       .33341       839       .30319       833       .99289       I.4       .0072         .818       .34180       840       .40153       834       .99289       I.4       .0071         2.820       .35862       842       8.41823       836       .99292       I.4	.809         .26653         833         .32679         827         .99276         I,4         .0073           2.810         8.27486         834         8.33506         827         0.99278         I,4         1.0073         0,           .811         .28030         834         .34334         828         .99279         I,4         .0072           .813         .29900         836         .35992         830         .99281         I,4         .0072           .814         .30826         837         .36823         831         .99283         I,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         I,4         .0072           2.817         3.3341         839         .39319         833         .99285         I,4         .0072           .816         .32502         838         .38486         833         .99285         I,4         .0072           .817         .33341         839         .30319         833         .99289         I,4         .0072           .818         .34180         840         .40153         834         .99289         I,4         .0071           .82		.0073	1,4	.99275	826	.31853	832	.25820	.808
.811         .28320         834         .34334         828         .09279         1.4         .0073           .812         .29154         835         .35163         829         .99281         1.4         .0072           .814         .30826         837         .36823         831         .99282         1.4         .0072           .814         .30826         837         .36823         831         .99285         1.4         .0072           .816         .32502         838         .38486         833         .99285         1.4         .0072           .816         .32502         838         .38486         833         .99288         1.4         .0072           .818         .34180         840         .40153         834         .99289         1.4         .0072           .818         .35862         842         8.41823         836         .99292         1.4         .0071           2.820         8.35862         842         8.41823         836         .99292         1.4         .0071           3.821         .36704         843         .42659         837         .99293         1.4         .0071           8.821         .3333	.811         .28320         834         .34334         828         .09279         1.4         .0073           .812         .29154         835         .35103         829         .99281         1.4         .0072           .813         .29990         836         .35992         830         .99282         1.4         .0072           .814         .30826         837         .36823         831         .99283         1.4         .0072           .816         .32502         838         .38486         833         .99285         1.4         .0072           .816         .32502         838         .38486         833         .99283         1.4         .0072           .818         .34180         840         .40153         834         .99289         1.4         .0072           .818         .34180         840         .4053         836         .99292         1.4         .0071           2.820         8.35862         842         8.41823         836         .99292         1.4         .0071           2.820         8.35937         842         8.41823         836         .99292         1.4         .0071           8.821         .3693									
.812         .29154         835         .35163         829         .99281         1,4         .0072           .813         .29990         836         .35992         830         .99282         1,4         .0072           2.815         8.31664         838         8.37654         832         .99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           .816         .32502         838         .38486         833         .99286         1,4         .0072           .817         .33341         839         .39319         833         .99289         1,4         .0072           .818         .34180         840         .40153         834         .99289         1,4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1,4         .0071           .821         .36704         843         .42659         837         .99295         1,4         .0071           .821         .37548         843         .43496         838         .99295         1,4         .0071           .822	.812         .29154         835         .35163         829         .09281         1,4         .0072           .813         .29900         836         .35992         830         .99282         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           2.815         8.31664         838         8.37654         832         0.99285         1,4         .0072           .816         .32502         838         .38486         833         .99286         1,4         .0072           .817         .33341         839         .39319         833         .99289         1,4         .0072           .818         .34180         840         .40153         834         .99289         1,4         .0071           2.820         8.35862         842         8.41823         836         0.99291         1,4         .0071           2.821         .36704         843         .42659         837         .99293         1,4         .0071           2.822         .37548         843         .43496         838         .99295         1,4         .0071           8.821	0,	1.0073	1,4	0.99278		8.33506	834	8.27486	2.810
.812       .29154       835       .35163       829       .90281       1,4       .0072         .813       .29090       836       .35902       830       .90282       1,4       .0072         .814       .30826       837       .36823       831       .90283       1,4       .0072         2.815       8.31664       838       8.37654       832       0.90285       1,4       1.0072       0,         .816       .32502       838       .38486       833       .99286       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0072       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       .0071       1,4       <	.812       .29154       835       .35163       820       .90281       1,4       .0072         .813       .29090       836       .35902       830       .99282       1,4       .0072         2.815       8.31664       838       8.37654       832       0.90285       1,4       .0072         .816       .32502       838       .38486       833       .99286       1,4       .0072         .817       .33341       839       .39319       833       .99289       1,4       .0072         .818       .34180       840       .40153       834       .99289       1,4       .0072         .819       .35021       841       .40987       835       .99291       1,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       1,4       .0071         .821       .36704       843       .42659       837       .90293       1,4       .0071         .822       .37548       843       .43496       838       .90295       1,4       .0071         .822       .37548       843       .43496       838       .99295       1,4       .0071		.0073	1,4		828	•34334	834	.28320	.811
.813         .29990         836         .35992         830         .99282         I,4         .0072           2.815         8.31664         838         8.37654         832         .99285         I,4         1.0072         0;           816         3.2502         838         .38486         833         .99286         I,4         .0072         0;           .817         .33341         839         .39319         833         .99288         I,4         .0072         0;           .818         .34180         840         .40153         834         .99289         I,4         .0071           2.820         8.35862         842         8.41823         836         0.99291         I,4         .0071           2.820         8.35862         842         8.41823         836         0.99292         I,4         .0071           .821         .36748         843         .42659         837         .99293         I,4         .0071           .822         .37548         843         .42659         837         .99295         I,4         .0071           .822         .37548         843         .43433         838         .99295         I,4         .007	.813       .29090       836       .35092       830       .99282       I,4       .0072         2.815       8.31664       838       8.37654       832       .99285       I,4       1.0072       0,         8.816       .32502       838       .38486       833       .99286       I,4       .0072       0,         8.816       .34180       840       .49153       834       .99289       I,4       .0072       0,         8.819       .35021       841       .4087       835       .99291       I,4       .0071       0,         2.820       8.35862       842       8.41823       836       0.90292       I,4       .0071       0,         8.821       .36704       843       .42659       837       .99293       I,4       .0071       0,         8.821       .36704       843       .43496       838       .99295       I,4       .0071       0,         8.821       .37548       843       .44533       838       .99295       I,4       .0071       0,         8.822       .37348       843       .433496       838       .99295       I,4       .0071       0,         8.825 <td></td> <td></td> <td></td> <td>.99281</td> <td>829</td> <td>.35163</td> <td>835</td> <td></td> <td>.812</td>				.99281	829	.35163	835		.812
.814       .30826       837       .36823       831       .99283       I.4       .0072         2.815       8.31664       838       8.37654       832       0.99285       I.4       1.0072       0;         .816       .32502       838       .38486       833       .99286       I.4       .0072         .817       .33341       839       .39319       833       .99289       I.4       .0072         .818       .34180       840       .40153       834       .99289       I.4       .0071         .819       .35021       841       .40087       835       .99291       I.4       .0071         2.820       .35862       842       8.41823       836       0.99295       I.4       .0071         .821       .36704       843       .42659       837       .99293       I.4       .0071         .822       .37548       843       .43496       838       .99295       I.4       .0071         .822       .37548       845       .45173       839       .99296       I.4       .0071         2.825       8.40082       846       8.46013       840       0.99299       I.4       I.0071	.814       .30826       837       .36823       831       .99283       I.4       .0072         2.815       8.31664       838       8.37654       832       0.99285       I.4       1.0072       0,         .816       .32502       838       .38486       833       .99286       I.4       .0072         .817       .33341       839       .39319       833       .99289       I.4       .0072         .818       .34180       840       .40153       834       .99289       I.4       .0071         .819       .35021       841       .4087       835       .99291       I.4       .0071         2.820       8.35862       842       8.41823       836       0.99292       I.4       1.0071       0,         .821       .36704       843       .4259       837       .99293       I.4       .0071       0,         .822       .37548       843       .43496       838       .99295       I.4       .0071       0,         .822       .37548       843       .43496       838       .99295       I.4       .0071       0,         .825       8.4082       846       8.46013       840		.0072	1,4	.99282	830		836		.813
.816         .32502         838         .38486         833         .99286         1.4         .0072           .817         .33341         839         .39319         833         .99288         1.4         .0072           .818         .34180         840         .40153         834         .99289         1.4         .0072           .819         .35021         841         .40987         835         .99291         1.4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1.4         1.0071         0,           .821         .36704         843         .42659         837         .99295         1.4         .0071           .822         .37548         843         .43696         838         .99295         1.4         .0071           .823         .38301         844         .44334         838         .99296         1.4         .0071           .824         .39236         845         .45173         839         .99306         1.4         .0071           .825         8.40082         846         .46013         840         .99302         1.4         1.0071         0, <tr< td=""><td>.816         .32502         838         .38486         833         .99286         1.4         .0072           .817         .33341         839         .39319         833         .99288         1.4         .0072           .818         .34180         840         .40153         834         .99289         1.4         .0072           .819         .35021         841         .40087         835         .99291         1.4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1.4         .0071           .821         .36704         843         .42659         837         .99295         1.4         .0071           .822         .37548         843         .43496         838         .99295         1.4         .0071           .823         .38301         844         .4334         838         .99295         1.4         .0071           .824         .39236         845         .45173         839         .99298         1.4         .0071           .825         8.40082         846         8.46013         840         0.99299         1.4         1.0071         0,           .826<!--</td--><td></td><td></td><td></td><td>.99283</td><td></td><td>.36823</td><td></td><td></td><td></td></td></tr<>	.816         .32502         838         .38486         833         .99286         1.4         .0072           .817         .33341         839         .39319         833         .99288         1.4         .0072           .818         .34180         840         .40153         834         .99289         1.4         .0072           .819         .35021         841         .40087         835         .99291         1.4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1.4         .0071           .821         .36704         843         .42659         837         .99295         1.4         .0071           .822         .37548         843         .43496         838         .99295         1.4         .0071           .823         .38301         844         .4334         838         .99295         1.4         .0071           .824         .39236         845         .45173         839         .99298         1.4         .0071           .825         8.40082         846         8.46013         840         0.99299         1.4         1.0071         0,           .826 </td <td></td> <td></td> <td></td> <td>.99283</td> <td></td> <td>.36823</td> <td></td> <td></td> <td></td>				.99283		.36823			
.817       .33341       839       .39319       833       .99289       1,4       .0072         .818       .34180       .840       .40153       834       .99289       1,4       .0072         .819       .35021       841       .40987       835       .99291       1,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       1,4       1.0071       0,6         .821       .36704       843       .42659       837       .99293       1,4       .0071       0,7         .822       .37548       843       .43496       838       .99295       1,4       .0071       0,7         .823       .38301       844       .44334       838       .99205       1,4       .0071       0,0         .824       .39236       845       .45173       839       .99298       1,4       .0071       0,0         .825       .44028       846       8.46013       840       0.99299       1,4       1.0071       0,0         .826       .44028       847       .46853       841       .99300       1,4       .0070         .828       .42624       849       .	.817       .33341       839       .39319       833       .99289       1,4       .0072         .818       .34180       840       .40153       834       .99289       1,4       .0072         .819       .35021       841       .40987       835       .99291       1,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       1,4       1.0071       0,         .821       .36704       843       .42659       837       .99293       1,4       .0071       0,         .822       .37548       843       .43496       838       .99295       1,4       .0071       0,         .823       .38391       844       .44334       838       .99205       1,4       .0071       0,         .824       .39236       845       .45173       839       .99298       1,4       .0071       0,         .825       .40028       846       8.46013       840       0.99299       1,4       1.0071       0,         .826       .40228       847       .46853       841       .99300       1,4       .0070         .822       .43773       849       .49380 </td <td>О,</td> <td>1.0072</td> <td>1,4</td> <td></td> <td>832</td> <td></td> <td></td> <td>8.31664</td> <td>2.815</td>	О,	1.0072	1,4		832			8.31664	2.815
.817         .33341         839         .39319         834         .99289         1,4         .0072           .819         .35021         841         .40987         835         .99291         1,4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1,4         1.0071         0;           .821         .36704         843         .42659         837         .99293         1,4         .0071           .822         .37548         843         .43496         838         .99296         1,4         .0071           .823         .38391         844         .44334         838         .99296         1,4         .0071           .824         .39236         845         .45173         839         .99298         1,4         .0071           .825         .40028         846         8.46013         840         .99299         1,4         1.0071         0;           .826         .40228         847         .46853         841         .99300         1,4         .0070           .828         .42624         849         .48537         843         .99302         1,4         .0070 <tr< td=""><td>.817         .33341         840         .40153         834         .99289         1,4         .0072           .818         .35021         841         .40687         835         .99291         1,4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1,4         1.0071         0,           .821         .36704         843         .42659         837         .99293         1,4         .0071           .822         .37548         843         .43496         838         .99296         1,4         .0071           .823         .38301         844         .44334         838         .99296         1,4         .0071           .824         .39236         845         .45173         839         .99298         1,4         .0071           .825         .40028         846         8.46013         840         .99299         1,4         1.0071         0,           .826         .40928         847         .46853         841         .99300         1,4         .0070           .828         .42624         849         .48537         843         .99302         1,4         .0070      <tr< td=""><td></td><td>.0072</td><td>1,4</td><td></td><td>833</td><td>.38486</td><td>838</td><td>.32502</td><td>.816</td></tr<></td></tr<>	.817         .33341         840         .40153         834         .99289         1,4         .0072           .818         .35021         841         .40687         835         .99291         1,4         .0071           2.820         8.35862         842         8.41823         836         0.99292         1,4         1.0071         0,           .821         .36704         843         .42659         837         .99293         1,4         .0071           .822         .37548         843         .43496         838         .99296         1,4         .0071           .823         .38301         844         .44334         838         .99296         1,4         .0071           .824         .39236         845         .45173         839         .99298         1,4         .0071           .825         .40028         846         8.46013         840         .99299         1,4         1.0071         0,           .826         .40928         847         .46853         841         .99300         1,4         .0070           .828         .42624         849         .48537         843         .99302         1,4         .0070 <tr< td=""><td></td><td>.0072</td><td>1,4</td><td></td><td>833</td><td>.38486</td><td>838</td><td>.32502</td><td>.816</td></tr<>		.0072	1,4		833	.38486	838	.32502	.816
.819       .35021       841       .40987       835       .99291       I,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       I,4       I.0071       0,         .821       .36704       843       .42659       837       .99295       I,4       .0071         .822       .37548       843       .443434       838       .99295       I,4       .0071         .823       .38391       844       .44334       838       .99296       I,4       .0071         .824       .39236       845       .45173       839       .99299       I,4       .0071         .825       8.40082       846       8.46013       840       0.99209       I,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       I,4       .0070         .827       .41776       848       .47695       842       .99302       I,4       .0070         .828       .42624       849       .49380       843       .99307       I,4       .0070         .831       .45173       851       .51068       845       .99307       I,4	.819       .35021       841       .40987       835       .99291       I,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       I,4       I.0071       0,         .821       .36704       843       .42659       837       .99293       I,4       .0071       0,         .822       .37548       843       .43496       838       .99295       I,4       .0071       0,         .824       .39236       845       .44334       838       .99295       I,4       .0071       0,         .824       .39236       845       .445173       839       .99298       I,4       .0071       0,         .824       .39236       846       8.46013       840       0.99299       I,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       I,4       .0070         .827       .41776       848       .47695       842       .99302       I,4       .0070         .828       .42624       849       .48537       843       .99302       I,4       .0070         .831       .45173       851       .51068<		.0072	1,4		833			.33341	.817
.819       .35021       841       .40987       835       .99291       I,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       I,4       I.0071       0,         .821       .36704       843       .42659       837       .99295       I,4       .0071         .822       .37548       843       .443434       838       .99295       I,4       .0071         .823       .38391       844       .44334       838       .99296       I,4       .0071         .824       .39236       845       .45173       839       .99299       I,4       .0071         .825       8.40082       846       8.46013       840       0.99209       I,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       I,4       .0070         .827       .41776       848       .47695       842       .99302       I,4       .0070         .828       .42624       849       .49380       843       .99307       I,4       .0070         .831       .45173       851       .51068       845       .99307       I,4	.819       .35021       841       .40987       835       .99291       I,4       .0071         2.820       8.35862       842       8.41823       836       0.99292       I,4       I.0071       0,         .821       .36704       843       .42659       837       .99293       I,4       .0071       0,         .822       .37548       843       .43496       838       .99295       I,4       .0071       0,         .824       .39236       845       .44334       838       .99295       I,4       .0071       0,         .824       .39236       845       .445173       839       .99298       I,4       .0071       0,         .824       .39236       846       8.46013       840       0.99299       I,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       I,4       .0070         .827       .41776       848       .47695       842       .99302       I,4       .0070         .828       .42624       849       .48537       843       .99302       I,4       .0070         .831       .45173       851       .51068<		.0072	1,4	.99289	834	.40153	840	.34180	.818
.821       .36704       843       .42659       837       .99293       1,4       .0071         .822       .37548       843       .43496       838       .99296       1,4       .0071         .823       .38391       844       .44334       838       .99296       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0;         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         .831       .45173       851       .51068       845       .99300       1,4       .0070         .831       .45173       851       .51068       845       .99300       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0070 <td>.821       .36704       843       .42659       837       .99293       1,4       .0071         .822       .37548       843       .43496       838       .99296       1,4       .0071         .823       .38391       844       .44334       838       .99296       1,4       .0071         .824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42024       849       .48537       843       .99305       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       .0070         .831       .45173       851       .51068       845       .99300       1,4       .0070</td> <td></td> <td>.0071</td> <td>1,4</td> <td>.99291</td> <td></td> <td></td> <td>841</td> <td></td> <td>.819</td>	.821       .36704       843       .42659       837       .99293       1,4       .0071         .822       .37548       843       .43496       838       .99296       1,4       .0071         .823       .38391       844       .44334       838       .99296       1,4       .0071         .824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42024       849       .48537       843       .99305       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       .0070         .831       .45173       851       .51068       845       .99300       1,4       .0070		.0071	1,4	.99291			841		.819
.822       .37548       843       .43496       838       .99295       1,4       .0071         .823       .38391       844       .44334       838       .99296       1,4       .0071         .824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0070         .826       .40928       847       .46853       841       .99302       1,4       .0070         .827       .41776       848       .47605       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99305       1,4       .0070         .828       .42624       849       .49380       843       .99305       1,4       .0070         .828       .42624       849       .49380       843       .99305       1,4       .0070         .828       .42624       849       .49380       843       .99306       1,4       1.0070         .831       .45173       851       .5168       845       .99307       1,4       .0070         <	.822       .37548       843       .43496       838       .99295       1,4       .0071         .823       .38391       844       .44334       838       .99296       1,4       .0071         .824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0070         .826       .40928       847       .46853       841       .99302       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99305       1,4       .0070         .828       .42624       849       .49380       843       .99305       1,4       .0070         .830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99309       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070	О,	1.0071	I,4	0.99292					
.823       .3839T       844       .44334       838       .99296       I,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       I,4       I.0071       0;         .826       .40928       847       .46853       841       .99300       I,4       .0070       0;         .827       .41776       848       .47695       842       .99302       I,4       .0070       0;         .828       .42624       849       .48537       843       .99303       I,4       .0070       0;         .828       .42624       849       .49380       843       .99305       I,4       .0070       0;         .828       .42624       849       .49380       843       .99305       I,4       .0070       0;         .831       .45173       851       .51068       845       .99307       I,4       .0070       0;         .832       .46025       852       .51914       846       .99309       I,4       .0069         .833       .46877       853       .52760       847       .99310       I,4       .0069         .836       .49439       .855	.823       .38391       844       .44334       838       .99296       I,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       I,4       I.0071       0,         8.26       .40028       847       .46853       841       .99300       I,4       .0070       0,         .827       .41776       848       .47695       842       .99302       I,4       .0070       0,         .828       .42624       849       .48537       843       .99303       I,4       .0070       0,         .828       .42624       849       .49380       843       .99305       I,4       .0070       0,         .828       .44322       850       8.50224       844       0.99306       I,4       .0070       0,         .831       .45173       851       .51068       845       .99307       I,4       .0070       0,         .832       .46025       852       .51914       846       .99309       I,4       .0069         .833       .46877       853       .52760       847       .99310       I,4       .0069         .836       .49439       855		.0071	1,4	.99293	837	.42659	843	.36704	.821
.824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,1         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99305       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         .830       .844322       850       8.50224       844       0.99306       1,4       1.0070         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .836       .49439       855       .55305       849       .99314       1,4       .0069	.824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         .830       .44322       850       8.50224       844       0.99306       1,4       1.0070         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46027       853       .52760       847       .99310       1,4       .0070         .833       .46877       853       .52760       848       .99311       1,4       .0069         .836       .49439       855       .55305       849       .99316       1,4       .0069     <		.0071	I,4		838	.43496	843	.37548	.822
.824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,1         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99305       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         .830       .844322       850       8.50224       844       0.99306       1,4       1.0070         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .836       .49439       855       .55305       849       .99314       1,4       .0069	.824       .39236       845       .45173       839       .99298       1,4       .0071         2.825       8.40082       846       8.46013       840       0.99299       1,4       1.0071       0,         .826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         .830       .44322       850       8.50224       844       0.99306       1,4       1.0070         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46027       853       .52760       847       .99310       1,4       .0070         .833       .46877       853       .52760       848       .99311       1,4       .0069         .836       .49439       855       .55305       849       .99316       1,4       .0069     <		.0071	1,4		838	•44334	844	.38391	.823
.826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99301       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .49730       854       .53608       848       .99311       1,4       1.0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069         837       .50205       856       .55155       850       .99316       1,4       .0069	.826       .40928       847       .46853       841       .99300       1,4       .0070         .827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070       0,         .832       .46025       852       .51914       846       .99310       1,4       .0069       0,         .833       .46877       853       .52760       847       .99310       1,4       .0069       0,         .836       .49439       .854       .53608       848       .99311       1,4       .0069       0,         .837       .50295       856       .56155       850       .99316       1,4       .0069       0,         .837       .52095       856       .56155 <td></td> <td>.0071</td> <td>1,4</td> <td>.99298</td> <td>839</td> <td></td> <td>845</td> <td></td> <td>.824</td>		.0071	1,4	.99298	839		845		.824
.827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070       0,         .832       .46025       852       .51914       846       .99309       1,4       .0070       0,         .833       .46877       853       .52760       847       .99310       1,4       .0069       0,         .834       .47730       854       .53608       848       .99311       1,4       .0069       0,         .835       .84854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99316       1,4       .0069         .838       .51151       857       .57006       851 </td <td>.827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070       0,         .832       .46025       852       .51914       846       .99309       1,4       .0070       0,         .833       .46877       853       .52760       847       .99310       1,4       .0069       0,         .834       .47730       854       .53608       848       .99311       1,4       .0069       0,         .835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .51515       856       .56155       850       .99316       1,4       .0069         .838       .51515       857       .57006&lt;</td> <td>О,</td> <td>1.0071</td> <td>1,4</td> <td>0.99299</td> <td>840</td> <td></td> <td></td> <td></td> <td></td>	.827       .41776       848       .47695       842       .99302       1,4       .0070         .828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070       0,         .832       .46025       852       .51914       846       .99309       1,4       .0070       0,         .833       .46877       853       .52760       847       .99310       1,4       .0069       0,         .834       .47730       854       .53608       848       .99311       1,4       .0069       0,         .835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .51515       856       .56155       850       .99316       1,4       .0069         .838       .51515       857       .57006<	О,	1.0071	1,4	0.99299	840				
.828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         .835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99314       1,4       .0069       0,         .837       .50295       856       .56155       850       .99317       1,4       .0069       0,         .838       .51151       857       .57006       851       .9	.828       .42624       849       .48537       843       .99303       1,4       .0070         .829       .43473       849       .49380       843       .99305       1,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       1,4       1.0070       0,         .831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         .835       8.48584       854       8.54456       849       .09313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99314       1,4       .0069       0,         .837       .50295       856       .56155       850       .99317       1,4       .0069       0,         .838       .51151       857       .57066       851       .99		.0070	1,4	.99300	841	.46853	847	.40928	.826
.828       .42624       849       .48537       843       .99303       I,4       .0070         .829       .43473       849       .49380       843       .99305       I,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       I,4       I.0070       0,         .831       .45173       851       .51068       845       .99307       I,4       .0070         .832       .46025       852       .51914       846       .99309       I,4       .0070         .833       .46877       853       .52760       847       .99310       I,4       .0069         .834       .47730       854       .53608       848       .99311       I,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       I,4       1.0069       0,         .836       .49439       855       .55305       849       .99316       I,4       .0069       0,         .838       .51151       857       .57006       851       .99317       I,4       .0069       0,         .840       .52867       859       8.58710       853	.828       .42624       849       .48537       843       .99303       I,4       .0070         .829       .43473       849       .49380       843       .99305       I,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       I,4       I.0070       0,         .831       .45173       851       .51068       845       .99307       I,4       .0070         .832       .46025       852       .51914       846       .99309       I,4       .0070         .833       .46877       853       .52760       847       .99310       I,4       .0069         .834       .47730       854       .53608       848       .99311       I,4       .0069         2.835       8.48584       854       8.54456       849       .09313       I,4       I.0069       0,         .836       .49439       855       .55305       849       .99314       I,4       .0069       0,         .837       .50295       856       .56155       850       .99317       I,4       .0069       0,         .838       .51151       857       .5706       851       .99		.0070	1,4	99302	842	.47695	848	.41776	.827
.829       .43473       849       .49380       843       .99305       I,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       I,4       I.0070       0,         .831       .45173       851       .51068       845       .99307       I,4       .0070       0,         .832       .46025       852       .51914       846       .99309       I,4       .0070       0,         .833       .46877       853       .52760       847       .99310       I,4       .0069       0,         .834       .47730       854       .53608       848       .99311       I,4       .0069       0,         2.835       8.48584       854       8.54456       849       0.99313       I,4       1.0069       0,         .836       .49439       855       .55305       849       .99316       I,4       .0069         .838       .51151       857       .57006       851       .99316       I,4       .0069         .839       .52009       858       .57857       852       .99318       I,4       .0069         .841       .53726       860       .59563	.829       .43473       849       .49380       843       .99305       I,4       .0070         2.830       8.44322       850       8.50224       844       0.99306       I,4       I.0070       0,         .831       .45173       851       .51068       845       .99307       I,4       .0070         .832       .46025       852       .51914       846       .99309       I,4       .0070         .833       .46877       853       .52760       847       .99310       I,4       .0069         .834       .47730       854       .53608       848       .99311       I,4       .0069         .835       .484584       854       8.54456       849       0.99313       I,4       1.0069       0,         .836       .49439       855       .55305       849       .99316       I,4       .0069       0,         .837       .50295       856       .56155       850       .99316       I,4       .0069       0,         .838       .51151       857       .57006       851       .99317       I,4       .0069       0,         .841       .53266       860       .59563       854		.0070	1,4	.99303	843	.48537	849	.42624	.828
.831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.90313       1,4       1.0069         .836       .49439       855       .55305       849       .99314       1,4       .0069         .837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .838       .52209       858       .57857       852       .99318       1,4       .0069         .841       .53726       860       .59563       854       .99321       1,4       .0069         .842       .54586       860       .60417       855       .99322       1,4       .0068         <	.831       .45173       851       .51068       845       .99307       1,4       .0070         .832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069         .836       .49439       855       .55305       849       .99314       1,4       .0069         .837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         .841       .53726       860       .59563       854       .99321       1,4       .0069         .842       .54586       860       .60417       855       .99322       1,4       .0068         <		.0070	1,4	.99305	843		849	•43473	.829
.832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0.         .836       .49439       855       .55305       849       .99314       1,4       .0069       0.         .837       .50295       856       .56155       850       .99316       1,4       .0069       0.         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,	.832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99314       1,4       .0069       0,         .837       .50295       856       .56155       850       .99316       1,4       .0069       0,         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         .841       .53726       860       .59563       854       .99320       1,4       1.0069       0,         .842       .54586       860       .60417       855       .99321       1,4       .0068         .843       .55447       861       .61272       855       .9932	0,	1.0070	1,4	0.99306				8.44322	2.830
.832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0.         .836       .49439       855       .55305       849       .99314       1,4       .0069       0.         .837       .50295       856       .56155       850       .99316       1,4       .0069       0.         .838       .51151       857       .57006       851       .99317       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0.         841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .9	.832       .46025       852       .51914       846       .99309       1,4       .0070         .833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99314       1,4       .0069       0,         .837       .50295       856       .56155       850       .99316       1,4       .0069       0,         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         .841       .53726       860       .59563       854       .99320       1,4       1.0069       0,         .842       .54586       860       .60417       855       .99321       1,4       .0068       0,         .843       .55447       861       .61272       855 <td></td> <td>.0070</td> <td>1,4</td> <td>.99307</td> <td></td> <td>.51068</td> <td></td> <td>.45173</td> <td>.831</td>		.0070	1,4	.99307		.51068		.45173	.831
.833       .46877       853       .52760       847       .99310       1,4       .0069         .834       .47730       854       .53608       848       .99311       1,4       .0069         2.835       8.48584       854       8.54456       849       0.99313       1,4       1.0069       0,         .836       .49439       855       .55305       849       .99314       1,4       .0069       0,         .837       .50295       856       .56155       850       .99316       1,4       .0069       0,         .838       .51151       857       .57006       851       .99317       1,4       .0069       0,         .839       .52009       858       .57857       852       .99318       1,4       .0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0069       0,         .842       .54586       860       .59563       854       .99321       1,4       .0068       0,         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862	.833						.51914			
2.835 8.48584 854 8.54456 849 0.99313 1,4 1.0069 0, 836 .49439 855 .55305 849 .99314 1,4 .0069 837 .50295 856 .56155 850 .99316 1,4 .0069 838 .51151 857 .57006 851 .99317 1,4 .0069 839 .52009 858 .57857 852 .99318 1,4 .0069  2.840 8.52867 859 8.58710 853 0.99320 1,4 1.0069 841 .53726 860 .50563 854 .99321 1,4 .0068 842 .54586 860 .50417 855 .99322 1,4 .0068 843 .55447 861 .61272 855 .99324 1,3 .0068 844 .50309 862 .62128 856 .99325 1,3 .0068 844 .56309 862 .62128 856 .99325 1,3 .0068  2.845 8.57171 863 8.62985 857 0.99326 1,3 1.0068 846 .58035 864 .63842 858 .99328 1,3 .0068 847 .58899 865 .64701 859 .99329 1,3 .0068 848 .59764 866 .65560 860 .99330 1,3 .0067 849 .60630 866 .66420 861 .99332 1,3 .0067	2.8 <sub>35</sub> 8.4 <sub>8</sub> 584 8.5 <sub>4</sub> 4 8.5 <sub>4</sub> 4,56 84 <sub>9</sub> 0.99313 1,4 1.0069 0, 836 .49439 855 .55305 84 <sub>9</sub> .99314 1,4 .0069 837 .50295 856 .56155 850 .99316 1,4 .0069 838 .51151 857 .57006 851 .99317 1,4 .0069 839 .52009 858 .57857 852 .99318 1,4 .0069  2.840 8.52867 859 8.58710 853 0.99320 1,4 1.0069 841 .53726 860 .50563 854 .99321 1,4 .0068 842 .54586 860 .60417 855 .99322 1,4 .0068 843 .55447 861 .61272 855 .99324 1,3 .0068 844 .56309 862 .62128 856 .99325 1,3 .0068 844 .56309 862 .62128 856 .99325 1,3 .0068  2.845 8.57171 863 8.62985 857 0.99326 1,3 1.0068 846 .58035 864 .63842 858 .99328 1,3 .0068 847 .58899 865 .64701 859 .99329 1,3 .0068 848 .59764 866 .65560 860 .99330 1,3 .0067 849 .60630 866 .66420 861 .99332 1,3 .0067			1,4	.99310	847	.52760	853	.46877	.833
.836       .49439       855       .55305       849       .99314       1,4       .0069         .837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0068       .842       .54586       860       .509322       1,4       .0068       .842       .54586       860       .60417       855       .99324       1,3       .0068       .844       .56309       862       .62128       856       .99324       1,3       .0068       .844       .56309       862       .62128       856       .99325       1,3       .0068       .846       .846       .58035       864       .63842       858       .99328       1,3       .0068       .847       .58899       865       .64701       859       .99329	.836		.0069	1,4	.99311	848	.53608		.47730	
.836       .49439       855       .55305       849       .99314       1,4       .0069         .837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0068       .842       .54586       860       .509322       1,4       .0068       .842       .54586       860       .60417       855       .99324       1,3       .0068       .844       .56309       862       .62128       856       .99324       1,3       .0068       .844       .56309       862       .62128       856       .99325       1,3       .0068       .846       .846       .58035       864       .63842       858       .99328       1,3       .0068       .847       .58899       865       .64701       859       .99329	.836	0,					8.54456	854	8.48584	2.835
.837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         .845       .857171       863       8.62985       857       0.99326       1,3       1.0068       0,         .846       .58035       .864       .63842       858       .99328       1,3       .0068         .847       .58899       865       .64701       859       .99330       1,3	.837       .50295       856       .56155       850       .99316       1,4       .0069         .838       .51151       857       .57006       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         2.845       8.57171       863       8.62985       857       0.99326       1,3       1.0068       0,         .846       .58035       .864       .63842       858       .99328       1,3       .0068         .847       .58899       805       .64701       859       .99330       1,3						-55305	855	.49439	.836
.838       .51151       857       .57066       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       859       8.58710       853       0.99320       1,4       1.0069       0,6         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         2.845       8.57171       863       8.62985       857       0.99326       1,3       1.0068       0,         .846       .58035       864       .63842       858       .99328       1,3       .0068         .847       .58899       865       .64701       859       .99329       1,3       .0068         .848       .59764       866       .65560       860       .99330       1,3	.838       .51151       857       .57066       851       .99317       1,4       .0069         .839       .52009       858       .57857       852       .99318       1,4       .0069         2.840       8.52867       850       8.58710       853       0.90320       1,4       1.0069       0,         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         2.845       8.57171       863       8.62985       857       0.99326       1,3       1.0068       0,         .846       .58035       864       .63842       858       .99328       1,3       .0068         .847       .58899       865       .64701       859       .99329       1,3       .0068         .848       .59764       866       .65560       860       .99330       1,3					850		856		.837
2.840       8.52867       859       8.58710       853       0.90320       1,4       1.0069       0,6         .841       .53726       860       .59563       854       .99321       1,4       .0068         .842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .61272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         2.845       8.57171       863       8.62985       857       0.90326       1,3       1.0068       0,3         .846       .58035       864       .63842       858       .99328       1,3       .0068         .847       .58899       865       .64701       859       .99329       1,3       .0068         .848       .59764       866       .65560       860       .99330       1,3       .0067         .849       .60630       866       .66420       861       .99332       1,3       .0067	2.840 8.52867 859 8.58710 853 0.99320 1,4 1.0069 0, 841 .53726 860 .59563 854 .99321 1,4 .0068 842 .54586 860 .60417 855 .99322 1,4 .0068 .843 .55447 861 .61272 855 .99324 1,3 .0068 .844 .56309 862 .62128 856 .99325 1,3 .0068  2.845 8.57171 863 8.62985 857 0.99326 1,3 1.0068 .846 .58035 864 .63842 858 .99328 1,3 .0068 .847 .58899 865 .64701 859 .99329 1,3 .0068 .848 .59764 866 .65560 860 .99330 1,3 .0067 .849 .60630 866 .66420 861 .99332 1,3 .0067	ed sceneral ass		1,4		851			.51151	.838
.841     .53726     860     .59563     854     .99321     1,4     .0068       .842     .54586     860     .60417     855     .99322     1,4     .0068       .843     .55447     861     .61272     855     .99324     1,3     .0068       .844     .56309     862     .62128     856     .99325     1,3     .0068       2.845     8.57171     863     8.62985     857     0.99326     1,3     1.0068     0,       .846     .58035     .864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     .866     .65560     860     .99330     1,3     .0067       .849     .60630     .866     .66420     861     .99332     1,3     .0067	.841     .53726     860     .59563     854     .99321     1,4     .0068       .842     .54586     860     .60417     855     .99322     1,4     .0068       .843     .55447     861     .61272     855     .99324     1,3     .0068       .844     .56309     862     .62128     856     .99325     1,3     .0068       2.845     8.57171     863     8.62085     857     0.99326     1,3     1.0068     0,       .846     .58035     .864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     866     .65560     860     .99330     1,3     .0067       .849     .60630     866     .66420     861     .99332     1,3     .0067		.0069	1,4	.99318	852	.57857	858	52009	.839
.841     .53726     860     .59563     854     .99321     1,4     .0068       .842     .54586     860     .60417     855     .99322     1,4     .0068       .843     .55447     861     .61272     855     .99324     1,3     .0068       .844     .56309     862     .62128     856     .99325     1,3     .0068       2.845     8.57171     863     8.62985     857     0.99326     1,3     1.0068     0,       .846     .58035     864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     866     .65560     860     .99330     1,3     .0067       .849     .60630     866     .66420     861     .99332     1,3     .0067	.841     .53726     860     .59563     854     .99321     1,4     .0068       .842     .54586     860     .60417     855     .99322     1,4     .0068       .843     .55447     861     .61272     855     .99324     1,3     .0068       .844     .56309     862     .62128     856     .99325     1,3     .0068       2.845     8.57171     863     8.62985     857     0.99326     1,3     1.0068     0,       .846     .58035     864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     866     .65560     860     .99330     1,3     .0067       .849     .60630     866     .66420     861     .99332     1,3     .0067	0,	1.0069			853	8.58710		8.52867	2.840
.842       .54586       860       .60417       855       .99322       1,4       .0068         .843       .55447       861       .01272       855       .99324       1,3       .0068         .844       .56309       862       .62128       856       .99325       1,3       .0068         2.845       8.57171       863       8.62985       857       0.99326       1,3       1.0068       0,         .846       .58035       .864       .63842       858       .99328       1,3       .0068         .847       .58899       865       .64701       859       .99329       1,3       .0068         .848       .59764       866       .65560       860       .99330       1,3       .0067         .849       .60630       866       .66420       861       .99332       1,3       .0067	.842       .54586       .860       .60417       .855       .99322       1,4       .0068         .843       .55447       .861       .61272       .855       .99324       1,3       .0068         .844       .56309       .862       .62128       .856       .99325       1,3       .0068         2.845       8.57171       .863       8.62985       .857       0.99326       1,3       1.0068       0,         .846       .58035       .864       .63842       .858       .99328       1,3       .0068         .847       .58899       .865       .64701       .859       .99329       1,3       .0068         .848       .59764       .866       .65560       .860       .99330       1,3       .0067         .849       .60630       .866       .66420       .861       .99332       1,3       .0067					854	.59563		.53726	
.843     .55447     .861     .61272     .855     .99324     1,3     .0068       .844     .56309     .862     .62128     .856     .99325     1,3     .0068       2.845     8.57171     .863     8.62085     .857     0.99326     1,3     1.0068     0,0       .846     .58035     .864     .63842     .858     .99328     1,3     .0068       .847     .58899     .865     .64701     .859     .99329     1,3     .0068       .848     .59764     .866     .65560     .860     .99330     1,3     .0067       .849     .60630     .866     .66420     .861     .99332     1,3     .0067	.843			1,4		855		860	.54586	.842
.844     .56309     862     .62128     856     .99325     1,3     .0068       2.845     8.57171     863     8.62985     857     0.99326     1,3     1.0068     0,3       .846     .58035     864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     866     .65560     860     .99330     1,3     .0067       .849     .60630     866     .66420     861     .99332     1,3     .0067	.844     .56309     862     .62128     856     .99325     I,3     .0068       2.845     8.57171     863     8.62985     857     0.99326     I,3     I.0068     0,       .846     .58035     864     .63842     858     .99328     I,3     .0068       .847     .58899     865     .64701     859     .99329     I,3     .0068       .848     .59764     866     .65560     860     .99330     I,3     .0067       .849     .60630     866     .66420     861     .99332     I,3     .0067					855			-55447	
.846     .58035     .864     .63842     .858     .99328     1,3     .0068       .847     .58899     .865     .64701     .859     .99329     1,3     .0068       .848     .59764     .866     .65560     .860     .99330     1,3     .0067       .849     .60630     .866     .66420     .861     .99332     1,3     .0067	.846     .58035     .864     .63842     858     .99328     1,3     .0068       .847     .58899     865     .64701     859     .99329     1,3     .0068       .848     .59764     866     .65560     860     .99330     1,3     .0067       .849     .60630     866     .66420     861     .99332     1,3     .0067		.0068	1,3	•99325	856	.62128	862	.56309	.844
.846     .58035     .864     .63842     .858     .99328     1,3     .0068       .847     .58899     .865     .64701     .859     .99329     1,3     .0068       .848     .59764     .866     .65560     .860     .99330     1,3     .0067       .849     .60630     .866     .66420     .861     .99332     1,3     .0067	.846     .58035     .864     .63842     858     .99328     1,3     .0068       .847     .58899     .865     .64701     859     .99329     1,3     .0068       .848     .59764     .866     .65560     860     .99330     1,3     .0067       .849     .60630     .866     .66420     .861     .99332     1,3     .0067	О,	1.0068			857	8.62985	863		
. 847   .58899   865   .64701   859   .99329   1,3   .0068   .848   .59764   866   .65560   860   .99330   1,3   .0067   .849   .60630   866   .66420   861   .99332   1,3   .0067	.847 .58899 865 .64701 859 .99329 1,3 .0068 .848 .59764 866 .65560 860 .99330 1,3 .0067 .849 .60630 866 .66420 861 .99332 1,3 .0067			1,3		858	.63842	864		.846
.848 .59764 866 .65560 860 .99330 1,3 .0067 .849 .60630 866 .66420 861 .99332 1,3 .0067	.848 .59764 866 .65560 860 .99330 1,3 .0067 .849 .60630 866 .66420 861 .99332 1,3 .0067			1,3		859	.64701	865	.58899	.847
						860			.59764	.848
2.850   8.61497   867   8.67281   861   0.99333   1,3   1.0067   0,	2.850 8.61497 867 8.67281 861 0.99333 1,3 1.0067 0,		.0067	1,3	.99332	861	.66420	866	.60630	.849
		0.	1.0067	1,3	0.99333	861	8.67281	867	8.61497	2.850

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.850 .851 .852 .853 .854	8.61497 .62365 .63233 .64103 .64973	867 868 869 870 871	8.67281 .68143 .69006 .69870 .70734	861 862 863 864 865	0.99333 .99334 .99336 .99337 .99338	1,3 1,3 1,3 1,3	1.0067 .0067 .0067 .0067 .0067	<b>O</b> <sub>3</sub>
2.855 .856 .857 .858 .859	8.65844 .66716 .67589 .68463 .69337	872 872 873 874 875	8.71600 .72466 .73333 .74201 .75070	866 867 868 868 869	0.99340 .99341 .99342 .99344 .99345	1,3 1,3 1,3 1,3 1,3	1.0066 .0066 .0066 .0066	0,
2.860 .861 .862 .863 .864	8.70213 .71089 .71967 .72845 .73724	876 877 878 879 879	8.75940 .76810 .77682 .78554 .79428	870 871 872 873 874	0.99346 .99348 .99349 .99350 .99351	I,3 I,3 I,3 I,3 I,3	1.0066 .0066 .0065 .0065	0,
2.865 .865 .867 .868 .869	8.74604 .75484 .76366 .77248 .78132	880 881 882 883 884	8.80302 .81177 .82053 .82930 .83807	875 875 876 877 878	0.99353 .99354 .99355 .99357 .99358	1,3 1,3 1,3 1,3 1,3	1.0065 .0065 .0065 .0065 .0065	0
2.870 .871 .872 .873 .874	8.79016 .79901 .80787 .81674 .82562	885 886 886 887 888	8.84686 .85565 .86446 .87327 .88209	879 880 881 882 883	0.99359 .99360 .99362 .99363 .09364	1,3 1,3 1,3 1,3 1,3	1.0065 .0064 .0064 .0064 .0064	0
2.875 .876 .877 .878 .879	8.83450 .84340 .85230 .86122 .87014	889 890 891 892 893	8.89092 .89976 .90861 .91746 .92633	883 884 885 886 887	0.99365 .99367 .99368 .99369 .99371	I,3 I,3 I,3 I,3	1.0064 .0064 .0064 .0063 .0063	•
2.880 .881 .882 .883 .884	8.87907 .88801 .89696 .90591 .91488	894 894 895 896 897	8.93520 .94409 .95298 .96188 .97079	888 889 890 891	0.99372 .99373 .99374 .99376 .99377	1,3 1,3 1,2 1,2 1,2	1.0063 .0063 .0063 .0063 .0063	
2.885 .886 .887 .888 .889	8.92386 .93284 .94183 .95084 .95985	898 899 900 901 902	8.97971 .98864 .99758 9.00652 .01548	892 893 894 895 896	0.99378 .99379 .99380 .99382 .99383	I,2 I,2 I,2 I,2 I,2	1.0063 .0062 .0062 .0062 .0062	
2.890 .891 .892 .893	8.96887 .97790 .98693 .99598 9.00504	902 903 904 905 906		898 899 900	0.99384 .99385 .99387 .99388 .99389	I,2 I,2 I,2 I,2 I,2	1.0062 .0062 .0062 .0062 .0061	
2.895 .896 .897 .898		907 908 909 910 911	.07842 .08745 .09648	901 902 903 904	.99391 .99393 .99394	I,2 I,2 I,2	1.0061 .0061 .0061 .0061	
2.900	9.05956	911	9.11458	906	0.99396	_	1.00бі	
u	tan gd u	ω <b>F</b> <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub>

Natural Hyperbolic Functions.

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.900	9.05956	911	9.11458	906	0.99396	1,2	1.0061	O, I
.901	.06868	912	.12365	907	.99398	1,2	.0061	
.902	.07781	913	.13272	908	.99399	1,2	.0060	
.903	.08695	914	. 14180	909	.99400	I,2	.0060	
.904	.09609	915	15090	910	.99401	I,2	.0060	
.,,,,,	100 Eur 2				1224	_,_	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
2.905	9.10525	916	9.16000	911	0.99402	I,2	1.0060	0,1
.906	.11441	917	.16911	911	.99403	1,2	.0060	
.907	.12359	918	.17823	912	.99405	1,2	.0060	
.908	.13277	919	. 18735	913	<b>.</b> 994 <b>0</b> 6	I,2	.0060	
.909	.14196	920	. 19649	914	99407	1,2	.0060	
2.910	9.15116	921	9.20564	915	0.99408	1,2	1.0060	0,1
.911	. 16037	921	.21479	916	.99409	I,2	.0059	,-
.912	. 16959	922	.22396	917	.99411	1,2	.0059	Í
.913	17882	923	.23313	918	99412	1,2	.0059	
.914	18806	924	.24232	919	.99413	1,2	.0059	·
				000				
2.915	9.19730	925	9.25151	920	0.99414	1,2	1.0059	0,1
.916	.20656	926	.26071	921	.99415	1,2	.0059	
.917	.21583	927	.26992	922	.99416	1,2	.0059	
.918	.22510	928	.27914	923	.99418	1,2	.0059	
.919	.23438	929	.28837	923	.99419	1,2	.0058	
2.920	9.24368	930	9.29761	924	0.99420	1,2	1.0058	0,1
.921	.25298	931	.30686	925	.99421	1,2	.0058	,
.922	.26229	932	.31612	926	.99422	1,2	.0058	
.923	.27161	933	.32538	927	.99423	1,1	.0058	
.924	.28094	933	.33466	928	99425	1,1	.0058	
0.00	0 00000	004	0 24205	020			T 00 TO	
2.925	9.29028	934	9.34395	929	0.99426	1,1	1.0058	0,1
.926	.29963	935	35324	930	.99427	1,1	.0058	. \.
.927	.30899	936	.36254	931	.99428	I,I	.0058	
.928	.31835	937	.37186	932	.99429	I,I	.0057	and the same
.929	•32773	938	.38118	933	.99430	I,I	0057	,
2.930	9.33712	939	9.39051	934	0.99531	1,1	1.0057	0,1
.931	.34651	940	39986	935	99433	1,1	.0057	,-
.932	.35592	941	.40921	936	99434	1,1	.0057	
933	.36533	942	.41857	937	-99435	I,I	.0057	
.934	·37475	943	42794	937	.99436	1,1	.0057	
.934	•3/4/3		142/94		•99430	-,-	.005,	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
2.935	9.38419	944	9.43732	938	0.99437	1,1	1.0057	O, I
.936	.39363	945	.44671	939	.99438	I,I	.0057	
-937	.40308	946	.45610	940	•99439	I,I	.0056	
.938	.41254	947	.46551	941	99440	1,1	.0056	
•939	.42201	947	47493	942	.99441	I,I	.0056	
2.940	9.43149	948	9.48436	943	0.99443	1,1	1.0056	0,1
.941	.44098	949	49379	943	99444	I,I	.0056	٠,٠
.941	.45048	950	.50324	945	•99445	I,I	.0056	
	45999	951	.51269	945	.99446	1,1	.0056	
•943 •944	.46950	952	.52216	947	•99447	1,1	.0056	
•944	•40930	934			•9944	1.00		
2.945	9.47903	953	9.53163	948	0.99448		1.0055	0,1
.946	.48857	954	.54112	949.	•99449		.0055	
•947	.49811	955	.55061	950	.99450	I,I	.0055	
.948	.50767	956	.56011	951	.99451	1,1	.0055	
•949	.51723	957	.56962	952	99453	I,I	.0055	
2.950	9.52681	958	9.57915	953	0.99454	1,1	1.0055	0,1
u.	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	ese gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
2.950	9.52681	958	9.57915	953	0.99454	1,1	1.0055	O,I
951	.53639	959	58868	954	99455	1,1	.0055	
.952	54598	960	.50822	955	99456	1,1	.0055	[발송하다 그리스]
		961	.60777	956	•99457	1,1	.0055	
•953	55559	962	.61733		.99458	I,I	.0055	H
•954	.56520	902		957	199430	1,11	.0033	
	9.57482	963	9.62690	957	0.99459	I,I	1.0054	0,1
.956	.58445	964	.63648	958	.99460	I,I	.0054	
•95 <i>7</i>	.59410	965	.64607	959	.99461	I,I	.0054	
.958	.60375	966	.65567	960	.99462	I,I	.0054	. Feb. 1
•959	.61341	967	.66528	961	.99463	I,I	.0054	#4   15
2.960	9.62308	967	9.67490	962	0.99464	I,I	1.0054	0,1
.961	.63276	968	68452	963	.99465	I,I	.0054	월 80
.962	.64245	969	69416	964	.99467	1,1	.0054	Matter Contract
.963	65214	970	.70381	965	.99468	1,1	.0054	Harrison Committee
.964	66185	97I	.71347	966	.99469	I,I	.0053	# Home
	9.67157	972	9.72313	967 968	0.99470	I,I	1.0053	0,1
.966	.68130	973	.73281		.99471	I,I	.0053	Si da da da da da da da da da da da da da
.967	.69104	974	.74249	969	99472	1,1	.0053	ń
.968	.70078	975	.75219	970	•99473	I,I	.0053	1
.969	.71054	976	.76190	971	•99474	1,0	.0053	
2.970	9.72031	977	9.77161	972	0.99475	1,0	1.0053	0,1
.971	.73008	978	.78134	973	.99476	1.0	.0053	
.972	.73987	979	.79107	974	.99477	I,0	.0053	ji
.973	74967	980	.80082	975	.99478	1,0	.0052	# 12 Page 1
.973	75947	981	.81057	975	99479	1,0	.0052	#1 #4
		1.7						
2.975	9.76929	982	9.82034	977	0.99480	1,0	1.0052	O, I
.976	.77911	983	.83011	978	.99481	1,0	.0052	11
•977	.78895	984	.83989	979	99482	1,0	.0052	11
.978	.79879	985	.84969	980	.99483	1,0	.0052	
.979	.80855	986	.85949	981	.99484	1,0	.0052	
2.980	9.81851	987	9.86930	982	0.99485	1,0	1,0052	0,1
.981	.82839	988	.87913	983	.99486	1,0	.0052	North Control of the
.982			.88896	984	.99487	I,0	.0052	1
	.83827	989			.99488			la esperante
.983	.84816	990	.89880	985		1,0	.0051	
.984	.85807	991	.90866	986	99489	1,0	.0051	
2.985	9.86798	992	9.91852	987	0.99490	1,0	1.0051	0,1
.086	.87790	993	.92839	988	99491	1,0	.0051	
.987	.88784	994	.93828	989	99492	1,0	.0051	
.988	.89778	995	.94817	990	.99493	1,0	.0051	lg.
.989	90773	996	.95807	991	99495	1,0	.0051	
2 000	0.01220	~~~	0.06700	000	0.00406		TOOFT	
2.990	9.91770	997	9.96798	992	0.99496	1,0	1.0051	0,1
.991	.92767	998	97791	993	99497	1,0	.0051	
.992	.93765	999	98784	994	99498	1,0	.0051	li.
•993	.94765	1000	.99778	995	99499	1,0	.0050	
•994	.95765	1001	10.00774	996	.99500	1,0	.0050	
2.995	9.96766	1002	10.01770	997	0.99501	1,0	1.0050	1,0
.996	.97768	1003	.02767	998	.99502	1,0	.0050	
.997	.98772	1004	.03765	999	.99503	1,0	.0050	
.998	99776	1005	.04765	1000	.99504	1,0	.0050	
	10.00781	1006	.05765	1001	.99504	1,0	.0050	
	10.01787	1007	10.06766	1002	0.99505	1,0	1.0050	0,1
	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> '	sin gđ u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′
, - i	<b>24 6</b>	, - "	l	1	I	1	•	

	<u> </u>		1	1		1		
u ————	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
3.00 .01 .02 .03 .04	10.0179 10.1191 10.2212 10.3245 10.4287	1007 1017 1027 1037 1048	10.0677 10.1683 10.2700 10.3728 10.4765	1002 1012 1022 1032 1043	0.99505 .99515 .99525 .99534 .99543	9,9 9,7 9,5 9,3 9,1	1.0050 .0049 .0048 .0047 .0046	I,0 I,0 I,0 O,9 O,9
3.05 .06 .07 .08 .09	10.5340 10.6403 10.7477 10.8562 10.9658	1058 1069 1079 1090	10.5814 10.6872 10.7942 10.9022 11.0113	1053 1064 1075 1086 1097	0.99552 .99561 .99570 .99578 .99587	8,9 8,8 8,6 8,4 8,2	1.0045 .0044 .0043 .0042 .0041	0,9 0,9 0,9 0,8 0,8
3.10 .11 .12 .13 .14	11.0765 11.1882 11.3011 11.4151 11.5303	1112 1123 1135 1146 1157	11.1215 11.2328 11.3453 11.4588 11.5736	1108 1119 1130 1142 1153	0.99595 .99603 .99611 .99618 .99626	8,1 7,9 7,8 7,6 7,5	1.0041 .0040 .0039 .0038 .0038	0,8 0,8 0,8 0,8 0,8
3.15 .16 .17 .18	11.6466 11.7641 11.8827 12.0026 12.1236	1169 1181 1192 1204 1216	11.6895 11.8065 11.9247 12.0442 12.1648	1165 1176 1188 1200 1212	0.99633 .99641 .99648 .99655 .99662	7,3 7,2 7,0 6,9 6,8	1.0037 .0036 .0035 .0035 .0034	0,7 0,7 0,7 0,7 0,7
3.20 .21 .22 .23 .24	12.2459 12.3694 12.4941 12.6200 12.7473	1229 1241 1253 1266 1279	12.2866 12.4097 12.5340 12.6596 12.7864	1225 1237 1249 1262 1275	0.99668 .99675 .99681 .99688	6,6 6,5 6,4 6,2 6,1	1.0033 .0033 .0032 .0031	0,7 0,7 0,6 0,6 0,6
3.25 .26 .27 .28 .29	12.8758 13.0056 13.1367 13.2691 13.4028	1291 1304 1317 1331 1344	12.9146 13.0440 13.1747 13.3067 13.4401	1288 1301 1314 1327 1340	0.99700 ,99706 99712 99717 99723	6,0 5,9 5,8 5,6 5,5	1.0030 .0030 .0029 .0028 .0028	0,6 0,6 0,6 0,6 0,6
3.30 .31 .32 .33 .34	13.5379 13.6743 13.8121 13.9513 14.0918	1357 1371 1385 1399 1413	13.5748 13.7108 13.8483 13.9871 14.1273	1354 1367 1381 1395 1409	0.99728 ·99734 ·99739 ·99744 ·99749	5,4 5,3 5,2 5,1 5,0	1.0027 .0027 .0026 .0026 .0025	0,5 0,5 0,5 0,5 0,5
3·35 .36 .37 .38 .39	14.2338 14.3772 14.5221 14.6684 14.8161	1427 1441 1456 1470 1485	14.2689 14.4120 14.5565 14.7024 14.8498	1423 1438 1452 1467 1482	0.99754 .99759 .99764 .99768 .99773	4,9 4,8 4,7 4,6 4,5	1.0025 .0024 .0024 .0023 .0023	0,5 0,5 0,5 0,5 0,5
3.40 .41 .42 .43 .44	14.9654 15.1161 15.2584 15.4221 15.57-1	1500 1515 1530 1545 1561	14.9987 15.1491 15.3011 15.4545 15.6095	1497 1512 1527 1542 1558	0.99777 .99782 .99786 .99790 .99795	4,4 4,4 4,3 4,2 4,1	1.0022 .0022 .0021 .0021 .0021	0,4 0,4 0,4 0,4 0,4
3.45 .46 .47 .48 .49	15.7343 15.8928 16.0528 16.2145 16.3777	1577 1592 1608 1625 1641	15.7661 15.9242 16.0839 16.2453 16.4082	1573 1589 1605 1621 1638	0.99799 .99803 .99807 .99810 .99814	4,0 3,9 3,9 3,8 3,7	1.0020 .0020 .0019 .0019	0,4 0,4 0,4 0,4 0,4
3.50	16.5426	1657	16.5728	1654	0.99818	3,6	1.0018	0,4
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω <b>F</b> <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω <b>F</b> <sub>0</sub> ′	coth u	<b>@ F</b> ₀′
3.50	16.5426	1657	16.5728	1654	0.99818	3,6	1.0018	0,4
.51	16.7092	1674	16.7391	1671	.99821	3,6	.0018	0,4
.52	16.8774	1691	16.9070	1688	.99825	3,5	.0018	0,4
	17.0473	1708	17.0766	1705	.99828	3,4	.0017	0,3
•53			17.2480	1722	.99832		.0017	
•54	17.2190	1725	17.2400	1/22	.99032	3,4	.0017	0,3
3.55	17.3923	1742	17.4210	1739	0.99835	3,3	1.0017	0,3
.56	17.5674	1760	17.5958	1757	.99838	3,2	.0016	· 0,3
•57	17.7442	1777	17.7724	1774	99842	3,2	.0016	0,3
.58	17.9228	1795	17.9507	1792	.99845	3,1	• <b>0</b> 016	0,3
•59	18.1032	1813	18.1308	1810	.99848	3,0	.0015	0,3
3.60	18.2855	1831	18.3128	1829	0.99851	3,0	1.0015	0,3
.61	18.4695	1850	18.4966	1847	.99854	2,9	.0015	0,3
.62	18.6554	1868	18.6822	1866	.99857	2,0	.0014	0,3
.63	18.8432	1887	18.8697	1884	.99859	2,8	.0014	0,3
.64	19.0328	1906	19.0590	1903	99862	2,8	.0014	0,3
3.65	19.2243	1925	19.2503	1922	0.99865	2,7	1.0014	0,3
.66	19.4178	1944	19.4435	1942	.99868	2,6	.0013	0,3
.67	19.6132	1964	19.6387	1961	.99870	2,6 2,6	.0013	0,3
.68	19.8106	1984	19.8358	1981	.99873		.0013	0,3
.69	20.0099	2003	20.0349	2001	.99875	2,5 2,5	.0013	0,3
- 1		d to make the	20.2360	2007	a ac0=0	e to a charge at		
3.70	20.2113	2024	20.2300	2021	0.99878	2,4	1.0012	0,2
.71	20.4147	2044	20.4391	2041	.99880	2,4	.0012	0,2
.72	20.6201	2064	20.6443	2052	.99883	2,3	.0012	0,2
.73	20.8276	2085	20.8516	2083	.99885	2,3	.0012	0,2
•74	21.0371	2106	21.0609	2104	.99887	2,3	.0011	0,2
3.75	21.2488	2127	21.2723	2125	0.99889	2,2	1.0011	0,2
.76	21.4626	2149	21.4859	2146	.99892	2,2	.0011	0,2
	21.6785	2170	21.7016	2168	.99894	2,1	.0011	0,2
·77	21.8966	2192	21.9194	2190	.99896	2,1	.0010	0,2
•79	22,1169	2214	22.1395	2212	.99898	2,0	.0010	0,2
3.80	22.3394	2236	22.3618	2234	0.99900	2,0	1.0010	0,2
.81	22.5641	2259	22.5863	2256	.99902	2,0	.0010	0,2
.82	22.7911	2281	22.8131	2279	99904	1,9	.0010	0,2
.83	23.0204	2304	23.0421	2302	.99904	1,9	.0009	0,2
.84	23.2520	2327	23.2735	2325	.99908	i,8	.0009	0,2
		100						
3.85	23.4859	2351	23.5072	2349	0.99909	1,8	1.0009	0,2
.86	23.7221	2374	23.7432	2372	.99911	1,8	.0009	0,2
.87	23.9608	2398	23.9816	2396	.99913	a <b>1,7</b>	.0009	0,2
.88	24.2018	2422	24.2224	2420	.99915	1,7	.0009	0,2
.89	24.4452	2447	24.4657	2445	.99916	1,7	8000	0,2
3.90	24.6911	2471	24.7113	2469	0.99918	1,6	8000.1	0,2
.91	24.9395	2406	24.9595	2494	.99920	1,6	8000	0,2
.92	25.1903	2521	25.2101	2519	.99921	1,6	8000	0,2
.93	25.4437	2546		2544	99923	1,5	8000.	0,2
.94	25.6996	2572	25.7190		99924	1,5	8000	.0,2
3.95	25.9581	2598	25.9773	2506	0.99926	1,5	1.0007	0,1
.96	26.2191	2624	26.2382	2622	.99927	1,5	.0007	0,1
.90	26.4828	2650	26.5017		.99927	1,4	0007	0,1
.98		2677	26.7679	2675				0,1
.90	26.7492 27.0182	20// 2704	27.0367	2648 2675 2702	.99930	I,4 I,4	.0007	0,1
4.00	27.2899	2731	27.3082	2729	0.99933	1,3	1.0007	0,1
	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0 000 H 1000	Megasi	रूपे इक्स नेखदेत			
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

u	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>o</sub> ′	coth u	∞ Fo'
							- COULT	w r0
4.00	27.2899	2731	27.3082	2729	0.99933	1,3	1.0007	0,1
10.	27.5644	2758	27.5825	2756	99934	1,3	0007	
.02	27.8416 28.1216	2786 2814	27.8595 28.1393	2784 2812	.99936	I,3 I,3	.0006	
.03	28.4044	2842	28.4220	2840	•99937 •99938	I,2	.0006	
'	-017077				. 99900	,-		
4.05	28.6900	2871	28.7074	2869	0.99939	1,2	1.0006	0,1
.06	28.9785	2900	28.9958	2898	.99941	1,2	.0006	ŕ
.07	29.2699	2929	29.2870	2927	.99942	I,2	.0006	
.08	29.5643 29.8616	2958 2988	29.5812 29.8783	2956 2986	99943	I,I <b>I</b> ,I	.0006 .0006	
.09	29.0010	2900	29.0703	2900	•99944	1,1	.0000	
4.10	30.1619	3018	30.1784	3016	0.99945	I,I	1.0005	0,1
.11	30.4652	3048	30.4816	3047	.99946	1,1	.0005	
.12	30.7715	3079	30.7877	3077	99947	I,I	.0005	
.13	31.0809	3110	31.0970	3108	.99948	1,0	.0005	1
.14	31.3934	3141	31.4094	3139	-99949	1,0	.0005	•
4.15	31.7091	3172	31.7249	3171	0.99950	1,0	1.0005	0,1
.16	32.0280	3204	32.0436	3203	99951	1,0	.0005	0,1
.17	32.3500	3237	32.3655	3235	.99952	1,0	.0005	
.18	32.6753	3269	32.6906	3268	•99953	0,9	.0005	
.19	33.0038	3302	33.0190	3300	99954	0,9	0005	
1	22 2257	2225	22 2507	2224	0.00055	0.0	T 0004	
4.20	33.3357 33.6708	3335 3369	33.3507 33.6857	3334 3367	0.99955 .99956	0,9	.0004	O, I
.22	34.0094	3402	34.0241	3401	•99950	0,9	.0004	
.23	34.3513	3437	34.3659	3435	99958	0,8	0004	
.24	34.6967	3471	34.7111	3470	.99958	0,8	.0004	
			_			0		
4.25	35.0456	3506	35.0598	3505	0.99959	0,8	1.0004	O,I
.26	35.3979	3541 3577	35.4121 35.7678	3540 3575	.99960	0,8 0,8	.0004	
.27	35.7538 36.1133	3517	36.1271	3611	.99961 .99962	0,8	.0004	
.29	36.4764	3649	36.4901	3648	99962	0,8	.0004	
		May y	1.000.151.00		.555==	-,-		
4.30	36.8431	<b>3</b> 686	36.8567	3684	0.99963	0,7	I.0004	0,1
.31	37.2135	3723	37.2270	3721	.99964	0,7	.0004	
.32	37.5877	3760	37.6010	3759	.99965	0,7	.0004	
•33	37.9656 38.3473	3798 3836	37.9787 38.3603	3797 3835	.99965 .99966	0,7 0,7	.0003	
• 34	30.34/3	3030	30.3003	3033	199900	0,7	***********	
4.35	38.7328	3875	38.7457	3873	0.99967	0,7	1.0003	0,1
.36	39.1222	3913	39.1350	3912	.99967	0,7	.0003	
•37	39.5155	3953	39.5281	3952	.99968	0,6	.0003	
.38	39.9128	3993	39.9253	3991	.99969	0,6	.0003	
•39	40.3140	4033	40.3264	4031	.99969	0,6	.0003	
4.40	40.7193	4073	40.7316	4072	0.99970	0,6	1.0003	0,1
.41	41.1287	4114	41.1408	4113	99970	0,6	.0003	,-
.42	41.5421	4155	41.5542	4154	.99971	0,6	.0003	We are the con-
•43	41.9598	4197	41.9717	.4196	.99972	0,6	.0003	
•44	42.3816	4239	42.3934	4238	99972	0,6	.0003	
4.45	42.8076	4282	42.8193	4281	0.99973	0,5	1.0003	O, I
.46	43.2380	4325	43.2495	4324	99973	0,5	.0003	-3-
.47	43.6726	4368	43.6841	4357	99974	0,5	.0003	
.48	44.1117	4412	44.1230	4411	99974	0,5	.0003	
•49	44.5551	4457	44.5663	4456	•99975	0,5	.0003	
4.50	45.0030	4501	45.0141	4500	0.99975	0,5	I 0002	0,0
u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

Ú	sinh u	ω F <sub>0</sub> ′	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> '	coth u	ω F₀′
4.50	45.0030	4501	45.0141	4500	0.99975	0,5	1.0002	0,0
.51	45.4554		45.4664	4546			.0002	٧,٠
		4547			.99976	0,5		.8
.52	45.9124	4592	45.9232	4591	.99976	0,5	.0002	fi .
•53	46.3739	4638	46.3847	4637	99977	0,5	.0002	
•54	46.8401	4685	46.8507	4684	99977	0,5	.0002	1.13
4.55	47.3109	4732	47.3215	4731	0.99978	0,4	1.0002	0,0
.56	47.7865	4780	47.7970	4779				٠,٠
	47.7603				.99978	0,4	.0002	6
•57	48.2669	4828	48.2772	4827	99979	0,4	.0002	ě.
.58	48.7521	4876	48.7623	4875	99979	0,4	.0002	
.59	49.2421	4925	49.2523	4924	99979	0,4	.0002	
4.60	49.7371	4975	49.7472	4974	0.99980	0,4	1.0002	0,0
.61	50.2371	5025	50.2471	5024	.99980	0,4	.0002	. 1
.62	50.7421	5075	50.7519	5074	.99981			1.76
						0,4	.0002	
.63	51.2522	5126	51.2619	5125	18000	0,4	.0002	
.64	51.7673	5178	51.7770	5177	.99981	0,4	.0002	
4.65	52.2877	5230	52.2973	5229	0.99982	0,4	1.0002	0,0
.66	52.8133	5282	52.8228	5281	.99982	0,4	.0002	
.67	53.3442	5335	53.3536	5334	.99982		.0002	
.68	53.8804	2222		2334		0,4		i, ·
		5389	53.8897	5388	.99983	0,3	.0002	
.69	54.4220	5443	54.4312	5442	.99983	0,3	.0002	
4.70	54.9690	5498	54.9781	5497	0.99983	0,3	1.0002	0,
.71	55.5216	5553	55.5306	5552	.99984	0,3	.0002	
.72	56.0797	5609	56.0886	5608	99984	0,3	.0002	
.73	56.6434	5665	56.6522	5664	99984		.0002	4.
.74	57.2127	5722	57.2215	5721	.99985	0,3	.0002	7
	,		57 1222	3/41	•5565	0,3	2	Ž.
4.75	57.7878	5780	57.7965	5779	0.99985	0,3	1.0001	10,0
.76	58.3687	5838	58.3772	5837	.99985	0,3	10001	Pr er
-77	58.9554	5896	58.9639	5896	.99986	0,3	.0001	3
.78	59 5480	5956	59.5564	5955	.99986	0,3	10001	- 1
.79	60.1465	6015	60.1548	6015	99986	0,3	.0001	
4.80	60	66	60	6	06			11 1. d 3
	60.7511	6076	60.7593	6075	0.99986	0,3	1.0001	O,
.81	61.3617	6137	61.3699	6136	.99987	0,3	10001	
.82	61,9785	6199	61.9866	6198	99987	0,3	.0001	
.83	62.6015	6261	62.6095	6260	.99987	0,3	.0001	
.84	63.2307	6324	63.2386	6323	.99987	0,3	.0001	-E' -
4.85	63.8663	6387	63.8741	6387	0.0000		7 2227	1 200
					0.99988	0,2	1.0001	О,
.86	64.5082	6452	64.5160	6451	.99988	0,2	10001	14
.87	65.1566	6516	65.1643	6516	.99988	0,2	.0001	
.88	65.8115	6582	65.8191	6581	.99988	0,2	1000.	1
.89	66.4730	6648	66.4805	6647	.99989	0,2	.0001	95
4.90	67.1412	6715	67.1486	6714	0.99989	0,2	1.0001	0,4
.91	67.8160	6782	67.8234	6782	99989			υ,
						0,2	.0001	A
.92	68.4977	6850	68.5050	6850	.99989	0,2	.0001	10
.93	69.1861	6919	69.1934	6919	99990	0,2	.0001	1
•94	69.8815	6989	69.8887	6988	99990	0,2	.0001	
4.95	70.5839	7059	70.5910	7058	0.99990	0,2	1.0001	0,0
.96	71.2934	7130	71.3004	7129	.99990	0,2	.0001	-,
.97	72.0100	7202	72.0169	7201				
					.99990	0,2	.0001	ji .
.98 .99	72.7338 73.4648	7274	72.7406 73.4716	7273	.99991	0,2	1000.	er er i er i Er er i
.39	13.4040	7347	73.4710	7346	•33331	9,2	.0001	Barrer da
5.00	74.2032	7421	74.2099	7420	0.99991	0,2	1.000.1	0,
u'	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u	ω F <sub>0</sub> ′	csc gd u	ω F <sub>0</sub> ′

.16	u	sinh u	ω F <sub>0</sub> '	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F <sub>0</sub> ′
.01	5.00	74.2032	7421	74.2000	7420	0,00001	0.2	1,0001	0
.02	-								
.03 75.46;2 7647 77.2382 7747 77.2382 7773 .99992 0,2 .0001  5.05 78.0080 7807 78.0144 7801 0.99992 0,2 .0001  5.05 78.0080 7807 78.0144 7801 0.99992 0,2 .0001  77.2382 78.07884 7879 .99992 0,2 .0001  77.25840 7959 78.0984 7879 .99992 0,2 .0001  98.11918 8120 81.1980 8119 .99992 0,2 .0001  5.10 82.0079 8201 82.0140 8201 0.99993 0,1 .0001  1.11 82.8322 8284 82.8382 8383 .99993 0,1 .0001  1.12 83.6647 8367 83.6707 8366 .99993 0,1 .0001  1.13 84.5056 8451 84.5115 84.511 .99993 0,1 .0001  1.14 85.3550 8536 85.3668 8535 .99993 0,1 .0001  5.15 86.2128 8622 86.2186 8621 0.99993 0,1 .0001  5.16 87.0794 8709 87.083 8708 .99993 0,1 .0001  5.17 87.0546 8760 8760 87.083 8708 .99993 0,1 .0001  1.18 88.8386 8884 88.8442 8884 .99994 0,1 .0001  1.19 89.7315 8974 89.7371 8973 .99994 0,1 .0001  5.20 90.6334 9064 90.6389 9063 0.99994 0,1 .0001  5.21 91.5443 9155 91.5498 9154 .99994 0,1 .0001  5.22 92.4644 9247 92.4698 9246 .99994 0,1 .0001  5.23 92.4644 9247 92.4698 9246 .99994 0,1 .0001  5.24 94.3324 9434 94.3377 9433 .99994 0,1 .0001  5.25 95.2805 9529 95.2858 9528 0.99994 0,1 .0001  5.26 96.2381 9624 96.2433 9624 .99995 0,1 .0001  5.27 97.2054 9721 97.2100  5.28 98.1824 9819 98.1875 99.818 .99995 0,1 .0001  5.31 101.1726 10118 101.1776 10117 .99995 0,1 .0001  5.33 103.2166 10322 103.2214 10322 .99995 0,1 .0001  5.34 104.2540 10426 104.2588 10425 .99996 0,1 .0000  5.35 105.3018 10531 105.305 10536 105364 .99996 0,1 .0000  5.40 110.7009 1001 100.1709 10017 0.99995 0,1 .0000  5.41 111.836 11182 111.8180 11181 .99996 0,1 .0000  5.42 112.9375 11294 112.9418 11294 .99996 0,1 .0000  5.44 115.2189 11521 117.5508 11755 .99996 0,1 .0000  5.45 116.3769 11638 116.3812 11638 0.99996 0,1 .0000  5.46 117.5466 11755 17575 11755 11755 .99996 0,1 .0000  5.47 118.7280 11873 11755 11755 11755 .99996 0,1 .0000  5.48 119.9213 11993 119.9254 11992 .99997 0,1 .0000									ſ
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5.20 90.6334 9064 90.6389 9063 0.99994 0,1 1.0001 0,22 92.4644 9247 92.4698 9246 .99994 0,1 .0001 .23 93.3937 9340 93.3991 9339 .99994 0,1 .0001 .24 94.3324 9434 94.3377 9433 .99994 0,1 .0001 .25 95.2805 9529 95.2858 9528 0.99994 0,1 .0001 .27 97.2054 9721 97.2106 9721 .99995 0,1 .0001 .28 98.1824 9819 98.1875 9818 .99995 0,1 .0001 .29 99.1692 9917 99.1742 9917 .99995 0,1 .0001 .29 99.1692 9017 100.1795 10017 .99995 0,1 .0001 .31 101.1726 10118 101.1776 10117 .99995 0,1 .0000 .33 103.2166 10322 103.2214 10322 .99995 0,1 .0000 .34 104.2540 10426 104.2588 10425 .99995 0,1 .0000 .37 107.4291 10743 107.4338 10743 .99996 0,1 .0000 .39 109.5994 10960 109.6040 10960 0,1 .0000 .39 109.5994 10960 109.6040 10960 0,1 .0000 .39 109.5994 10960 109.6040 10960 0,1 .0000 .99996 0,1 .0000 .39 109.5994 10960 109.6040 10960 0,1 .0000 .99996 0,1 .	.18	88.8386	8884	88.8442	8884	99994	0,1	10001	
21 91.5443 9155 91.5498 9154 .99994 0,1 .0001 22 92.4644 9247 92.4698 9246 .99994 0,1 .0001 23 93.3937 9340 93.3991 9339 .99994 0,1 .0001 24 94.3324 9434 94.3377 9433 .99994 0,1 .0001 5.25 95.2805 9529 95.2858 9528 0.99994 0,1 .0001 5.26 96.2381 9624 96.2433 9624 .99995 0,1 .0001 27 97.2054 9721 97.2106 9721 .99995 0,1 .0001 28 98.1824 9819 98.1875 9818 .99995 0,1 .0001 29 99.1692 9917 99.1742 9917 .99995 0,1 .0001 5.30 100.1659 10017 100.1709 10017 .99995 0,1 .0001 31 101.1726 10118 101.1776 10117 .99995 0,1 .0000 32 102.1895 10219 102.1944 10219 .99995 0,1 .0000 33 103.2166 10322 103.2214 10322 .99995 0,1 .0000 34 104.2540 10426 104.2588 10425 .99995 0,1 .0000 5.35 105.3018 10531 105.3065 10530 0.99995 0,1 .0000 5.36 106.3601 10636 106.3648 10636 .99996 0,1 .0000 38 108.5088 10851 108.5134 10743 .99996 0,1 .0000 39 109.5994 10960 109.6040 10960 .99996 0,1 .0000 5.40 110.7009 11071 110.7055 11070 0.99996 0,1 .0000 41 111.8136 11182 111.8180 11181 .99996 0,1 .0000 5.40 110.7009 11071 110.7055 11070 0.99996 0,1 .0000 41 111.8136 11182 111.8180 11181 .99996 0,1 .0000 42 111.9375 11294 112.9418 11294 .99996 0,1 .0000 5.45 116.3769 11638 116.3812 11638 0.99996 0,1 .0000 5.46 117.5466 11755 117.5508 11755 .99996 0,1 .0000 47 118.7280 11638 116.3812 11638 0.99996 0,1 .0000 48 119.9213 11993 119.9254 11992 .99997 0,1 .0000 49 121.1265 12113 121.1307 12113 .99997 0,1 .0000	.19	89.7315	8974	89.7371	8973	•99994	0,1	.0001	
.22   92.4644   9247   92.4698   9246   .99994   0,1   .0001   .23   93.3937   9340   93.3991   9339   .99994   0,1   .0001   .24   94.3324   94.3377   9433   .99994   0,1   .0001   .24   94.3324   94.3377   9433   .99994   0,1   .0001   .25   .26   95.2855   9529   95.2858   9528   0.99994   0,1   .0001   .26   96.2431   .9624   .99995   0,1   .0001   .27   .97   .2549   .9721   .97   .2106   .9721   .99995   0,1   .0001   .28   98.1824   .9819   .98.1875   .9818   .99995   0,1   .0001   .29   .99.1692   .9917   .9917   .99995   0,1   .0001   .29   .99.1692   .9917   .9917   .99995   0,1   .0001   .29   .2106   .2111   .0118   .01.1776   .0117   .99995   .91   .0000   .31   .01.1726   .1018   .101.1776   .0117   .99995   .91   .0000   .32   .102.1895   .10219   .102.1944   .10219   .99995   .91   .0000   .33   .103.2166   .10322   .103.2214   .10322   .99995   .91   .0000   .34   .104.2540   .0426   .104.2588   .10425   .99995   .91   .0000   .36   .106.3661   .10436   .104.2588   .10425   .99995   .91   .0000   .37   .107.4291   .10743   .107.4338   .10743   .99996   .91   .0000   .38   .108.5088   .108.5134   .10851   .99996   .91   .0000   .39   .109.5994   .10960   .109.6040   .10960   .99996   .91   .0000   .11.182   .111.8180   .1181   .1182   .111.8180   .1181   .99996   .91   .0000   .11.0000   .41   .111.8136   .1182   .111.8180   .1181   .99996   .91   .0000   .11.0000   .41   .111.8136   .1182   .111.8180   .1181   .1194   .99996   .91   .0000   .10000   .41   .111.8136   .1182   .111.8180   .1181   .11994   .99996   .91   .0000   .10000   .41   .110.755   .117.5508   .1152   .115.2233   .11522   .99996   .91   .0000   .10000   .111.0000   .41   .117.5466   .11755   .117.5508   .11755   .99996   .91   .0000   .10000   .10000   .111.0000   .111.0000   .111.0000   .111.0000   .11182   .111873   .11873   .99996   .91   .0000   .10000   .10000   .10000   .10000   .10000   .100000   .100000   .100000   .100000   .1000000   .10000000000	5.20	90.6334	9064	90.6389	9063	0.99994	0,1	1.0001	0,
1.23   93.3937   9340   93.3991   9339   .99994   0,1   .0001     1.24   94.3324   94.3377   9433   .99994   0,1   .0001     2.24   94.3324   94.3377   9433   .99994   0,1   .0001     2.25   95.2805   9529   95.2858   9528   0.99994   0,1   .0001     2.26   96.2381   9624   96.2433   9624   .99995   0,1   .0001     2.27   97.2054   9721   97.2106   9721   .99995   0,1   .0001     2.28   98.1824   9819   98.1875   9818   .99995   0,1   .0001     2.29   99.1692   9917   99.1742   9917   .99995   0,1   .0001     2.30   100.1659   10017   100.1709   10017   0.99995   0,1   .0000     3.31   101.1726   10118   101.1776   10117   .99995   0,1   .0000     3.32   102.1895   10219   102.1944   10219   .99995   0,1   .0000     3.33   103.2166   10322   103.2214   10322   .99995   0,1   .0000     3.34   104.2540   10426   104.2588   10425   .99995   0,1   .0000     3.35   105.3018   10531   105.3065   10530   0.99995   0,1   .0000     3.36   106.3601   10636   106.3648   10636   .99996   0,1   .0000     3.37   107.4201   10743   107.4338   10743   .99996   0,1   .0000     3.38   108.5088   10851   108.5134   10851   .99996   0,1   .0000     3.39   109.5994   10960   109.6040   10960   .99996   0,1   .0000     3.41   111.8136   11182   111.8186   11181   .99996   0,1   .0000     4.41   111.8136   1182   111.8186   1181   .99996   0,1   .0000     4.41   111.8136   1182   111.8186   1181   .99996   0,1   .0000     4.41   11.8136   1182   111.8186   11407   .99996   0,1   .0000     4.41   11.8136   1182   111.8186   11407   .99996   0,1   .0000     4.41   11.8136   1182   115.2233   11522   .99996   0,1   .0000     5.45   116.3769   11638   116.3812   11638   0.99996   0,1   .0000     4.46   117.5466   11755   117.5508   11755   .99996   0,1   .0000     4.47   118.7280   11873   118.7322   11873   .99997   0,1   .0000     4.48   119.9213   11993   119.9254   11992   .99997   0,1   .0000     4.49   121.1265   12113   121.1307   12113   .99997   0,1   .0000	.21	91.5443	9155	91.5498	9154	-99994	0,1	10001	1
1.23   93.3937   9340   93.3991   9339   .99994   0,1   .0001     1.24   94.3324   94.3377   9433   .99994   0,1   .0001     2.24   94.3324   94.3377   9433   .99994   0,1   .0001     2.25   95.2805   9529   95.2858   9528   0.99994   0,1   .0001     2.26   96.2381   9624   96.2433   9624   .99995   0,1   .0001     2.27   97.2054   9721   97.2106   9721   .99995   0,1   .0001     2.28   98.1824   9819   98.1875   9818   .99995   0,1   .0001     2.29   99.1692   9917   99.1742   9917   .99995   0,1   .0001     2.30   100.1659   10017   100.1709   10017   0.99995   0,1   .0000     3.31   101.1726   10118   101.1776   10117   .99995   0,1   .0000     3.32   102.1895   10219   102.1944   10219   .99995   0,1   .0000     3.33   103.2166   10322   103.2214   10322   .99995   0,1   .0000     3.34   104.2540   10426   104.2588   10425   .99995   0,1   .0000     3.35   105.3018   10531   105.3065   10530   0.99995   0,1   .0000     3.36   106.3601   10636   106.3648   10636   .99996   0,1   .0000     3.37   107.4201   10743   107.4338   10743   .99996   0,1   .0000     3.38   108.5088   10851   108.5134   10851   .99996   0,1   .0000     3.39   109.5994   10960   109.6040   10960   .99996   0,1   .0000     3.41   111.8136   11182   111.8186   11181   .99996   0,1   .0000     4.41   111.8136   1182   111.8186   1181   .99996   0,1   .0000     4.41   111.8136   1182   111.8186   1181   .99996   0,1   .0000     4.41   11.8136   1182   111.8186   11407   .99996   0,1   .0000     4.41   11.8136   1182   111.8186   11407   .99996   0,1   .0000     4.41   11.8136   1182   115.2233   11522   .99996   0,1   .0000     5.45   116.3769   11638   116.3812   11638   0.99996   0,1   .0000     4.46   117.5466   11755   117.5508   11755   .99996   0,1   .0000     4.47   118.7280   11873   118.7322   11873   .99997   0,1   .0000     4.48   119.9213   11993   119.9254   11992   .99997   0,1   .0000     4.49   121.1265   12113   121.1307   12113   .99997   0,1   .0000	.22	92.4644	9247	92.4698	9246	.99994	0.1	.0001	ļ.
.24         94.3324         9434         94.3377         9433         .99994         0,1         .0001           5.25         95.2805         9529         95.2858         9528         0.99994         0,1         1.0001         0,           .26         96.2381         9624         96.2433         9624         .99995         0,1         .0001           .27         97.2054         9721         97.2106         9721         .99995         0,1         .0001           .28         98.1824         9819         98.1875         9818         .99995         0,1         .0001           .29         99.1692         9917         99.1742         9917         .99995         0,1         .0001           .30         100.1659         10017         100.1709         10017         0.99995         0,1         .0000           .31         101.1726         10118         101.1776         10117         .99995         0,1         .0000           .32         102.1895         10219         102.1944         10219         .99995         0,1         .0000           .33         103.2166         10322         103.2214         10322         .99995         0,1         .0000	.23							.0001	ŀ
.26 96.2381 9624 96.2433 9624 .99995 0,1 .0001 .27 97.2054 9721 97.2106 9721 .99995 0,1 .0001 .28 98.1824 9819 98.1875 9818 .99995 0,1 .0001 .29 99.1692 9917 99.1742 9917 .99995 0,1 .0001 .30 100.1659 10017 100.1709 10017 .99995 0,1 .0000 .31 101.1726 10118 101.1776 10117 .99995 0,1 .0000 .32 102.1895 10219 102.1944 10219 .99995 0,1 .0000 .33 103.2166 10322 103.2214 10322 .99995 0,1 .0000 .34 104.2540 10426 104.2588 10425 .99995 0,1 .0000 .35 105.3018 10531 105.3065 10530 0.99995 0,1 .0000 .37 107.4291 10743 107.4338 10743 .99996 0,1 .0000 .38 108.5088 10851 108.5134 10851 .99996 0,1 .0000 .39 109.5994 10960 109.6040 10960 .99996 0,1 .0000 .41 111.8136 11182 111.8180 11181 .99996 0,1 .0000 .42 112.9375 11294 112.9418 11294 .99996 0,1 .0000 .43 114.0724 11408 114.0768 11407 .99996 0,1 .0000 .44 115.2189 11522 115.2233 11522 .99996 0,1 .0000 .45 116.3769 11638 116.3812 11638 0.99996 0,1 .0000 .46 117.5466 11755 117.5508 11755 .99996 0,1 .0000 .47 118.7280 11873 118.7322 11873 .99996 0,1 .0000 .48 119.9213 11993 119.0254 11992 .99997 0,1 .0000 .49 121.1265 12113 121.1307 12113 .99997 0,1 .0000								ľ	
.26 96.2381 9624 96.2433 9624 .99995 0,1 .0001 .27 97.2054 9721 97.2106 9721 .99995 0,1 .0001 .28 98.1824 9819 98.1875 9818 .99995 0,1 .0001 .29 99.1692 9917 99.1742 9917 .99995 0,1 .0001 .30 100.1659 10017 100.1709 10017 .99995 0,1 .0000 .31 101.1726 10118 101.1776 10117 .99995 0,1 .0000 .32 102.1895 10219 102.1944 10219 .99995 0,1 .0000 .33 103.2166 10322 103.2214 10322 .99995 0,1 .0000 .34 104.2540 10426 104.2588 10425 .99995 0,1 .0000 .35 105.3018 10531 105.3065 10530 0.99995 0,1 .0000 .37 107.4291 10743 107.4338 10743 .99996 0,1 .0000 .38 108.5088 10851 108.5134 10851 .99996 0,1 .0000 .39 109.5994 10960 109.6040 10960 .99996 0,1 .0000 .41 111.8136 11182 111.8180 11181 .99996 0,1 .0000 .42 112.9375 11294 112.9418 11294 .99996 0,1 .0000 .43 114.0724 11408 114.0768 11407 .99996 0,1 .0000 .44 115.2189 11522 115.2233 11522 .99996 0,1 .0000 .45 116.3769 11638 116.3812 11638 0.99996 0,1 .0000 .46 117.5466 11755 117.5508 11755 .99996 0,1 .0000 .47 118.7280 11873 118.7322 11873 .99996 0,1 .0000 .48 119.9213 11993 119.0254 11992 .99997 0,1 .0000 .49 121.1265 12113 121.1307 12113 .99997 0,1 .0000	5.25	95.2805	0520	05.2858	9528	0.00004	0.1	1,0001	0.
.27   97.2054   9721   97.2106   9721   .99995   0,1   .0001   .28   98.1824   9819   98.1875   9818   .99995   0,1   .0001   .29   99.1692   9917   99.1742   9917   .99995   0,1   .0001   .29   99.1692   9917   99.1742   9917   .99995   0,1   .0001   .0001   .31   101.1726   10118   101.1776   10117   .99995   0,1   .0000   .32   102.1895   10219   102.1944   10219   .99995   0,1   .0000   .33   103.2166   10322   103.2214   10322   .99995   0,1   .0000   .34   104.2540   10426   104.2588   10425   .99995   0,1   .0000   .36   105.3018   105.31   105.3065   10530   0.99995   0,1   .0000   .37   107.4291   107.43   107.4338   107.4338   107.4338   108.5088   10851   108.5134   10851   .99996   0,1   .0000   .38   108.5088   10851   108.5134   10851   .99996   0,1   .0000   .39   109.5994   10960   109.6040   10960   .99996   0,1   .0000   .41   111.8136   11182   111.8180   11181   .99996   0,1   .0000   .42   112.9375   11294   112.9418   11294   .99996   0,1   .0000   .43   114.0724   11408   114.0768   11407   .99996   0,1   .0000   .43   114.0724   11408   114.0768   11407   .99996   0,1   .0000   .44   115.2189   11522   115.2233   11522   .99996   0,1   .0000   .46   117.5466   11755   117.5508   11755   .99996   0,1   .0000   .47   118.7280   11873   118.7322   11873   .99997   0,1   .0000   .48   119.9213   11993   119.9254   11992   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1   .0000   .40   121.1265   12113   121.1307   12113   .99997   0,1		06.2381		06.2433				1	
.28								i i	
.29         99.1692         9917         99.1742         9917         .99995         0,1         .0001           5.30         100.1659         10017         100.1709         10017         0.99995         0,1         1.0000         0,           .31         101.1726         10118         101.176         10117         .99995         0,1         .0000           .32         102.1895         10219         102.1944         10219         .99995         0,1         .0000           .33         103.2166         10322         103.2214         10322         .99995         0,1         .0000           .34         104.2540         10426         104.2588         10425         .99995         0,1         .0000           .35         105.3018         10531         105.3065         10530         .99996         0,1         .0000           .36         106.3601         10636         106.3648         10636         .99996         0,1         .0000           .37         107.4291         10743         107.4338         10743         .99996         0,1         .0000           .39         109.5994         10960         109.6040         10960         .99996         0,1									
.31         I01.1726         I0118         I01.1776         I0117         .99995         0,1         .0000           .32         I02.1895         I0219         I02.1944         I0219         .99995         0,1         .0000           .33         I03.2166         I0322         I03.2214         I0322         .99995         0,1         .0000           .34         I04.2540         I0426         I04.2588         I0425         .99995         0,1         .0000           .34         I04.2540         I0426         I04.2588         I0425         .99995         0,1         .0000           .35         I05.3018         I0531         I05.3065         I0530         .99996         0,1         .0000           .37         I07.4291         I0743         10743         .99996         0,1         .0000           .38         I08.5088         I0851         108.5134         10851         .99996         0,1         .0000           .39         I09.5994         I0960         I09.6040         I0960         .99996         0,1         .0000           .40         I10.7009         I1071         I10.7055         I1070         0.99996         0,1         .0000								1	ĺ
.31         I01.1726         I0118         I01.1776         I0117         .99995         0,1         .0000           .32         I02.1895         I0219         I02.1944         I0219         .99995         0,1         .0000           .33         I03.2166         I0322         I03.2214         I0322         .99995         0,1         .0000           .34         I04.2540         I0426         I04.2588         I0425         .99995         0,1         .0000           .34         I04.2540         I0426         I04.2588         I0425         .99995         0,1         .0000           .35         I05.3018         I0531         I05.3065         I0530         .99996         0,1         .0000           .37         I07.4291         I0743         10743         .99996         0,1         .0000           .38         I08.5088         I0851         108.5134         10851         .99996         0,1         .0000           .39         I09.5994         I0960         I09.6040         I0960         .99996         0,1         .0000           .40         I10.7009         I1071         I10.7055         I1070         0.99996         0,1         .0000	5.30	100.1650	10017	100 . 1700	10017	0.00005	1.0	T 0000	
.32         102.1895         10219         102.1944         10219         .99995         0,1         .0000           .33         103.2166         10322         103.2214         10322         .99995         0,1         .0000           .34         104.2540         10426         104.2588         10425         .99995         0,1         .0000           5.35         105.3018         10531         105.3065         10530         0.99996         0,1         .0000           .36         106.3601         10636         106.3648         10636         .99996         0,1         .0000           .37         107.4291         10743         107.4338         10743         .99996         0,1         .0000           .38         108.5088         10851         108.5134         10851         .99996         0,1         .0000           .39         109.5994         10960         109.6040         10960         .99996         0,1         .0000           .40         110.7009         11071         110.7055         11070         0.99996         0,1         .0000           .41         111.8136         11182         111.8180         1181         .99996         0,1         .00								1	0,
.33   103.2166   103.22   103.2214   103.22   .99995   0,1   .0000   .34   104.2540   10426   104.2588   10425   .99995   0,1   .0000   .35   105.3018   105.31   105.3065   105.30   0.99995   0,1   .0000   .36   106.3601   10636   106.3648   10636   .99996   0,1   .0000   .37   107.4291   10743   107.4338   107.43   .99996   0,1   .0000   .38   108.5088   10851   108.5134   10851   .99996   0,1   .0000   .39   109.5994   10960   109.6040   10960   .99996   0,1   .0000   .41   111.8136   11182   111.8180   11181   .99996   0,1   .0000   .42   112.9375   11294   112.9418   11294   .99996   0,1   .0000   .43   114.0724   11408   114.0768   11407   .99996   0,1   .0000   .44   115.2189   115.22   115.2233   11522   .99996   0,1   .0000   .45   116.3760   11638   116.3812   11638   0.99996   0,1   .0000   .46   117.5466   11755   117.5508   11755   .99996   0,1   .0000   .47   118.7280   11873   118.7322   11873   .99996   0,1   .0000   .48   119.9213   11993   119.9254   11992   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000								1	
.34         I04,2540         I0426         I04,2588         I0425         .99995         0,1         .0000           5.35         I05,3018         I0531         I05,3065         I0530         0.99995         0,1         1.0000         0,           .36         I06,3601         I0536         I06,3648         I0636         .99996         0,1         .0000           .37         I07,4291         I0743         I07,4338         I0743         .99996         0,1         .0000           .38         I08.5088         I0851         I08.5134         I0851         .99996         0,1         .0000           .39         I09.5994         I0960         I09.6040         I0960         .99996         0,1         .0000           .40         II0.7009         I1071         I10.7055         I1070         0.99996         0,1         .0000           .41         I11.8136         I1182         I11.8180         I1181         .99996         0,1         .0000           .42         I12.9375         I1294         I12.9418         I1294         .99996         0,1         .0000           .43         I14.0724         I1408         I14.0768         I1407         .99996         0,			_						
5.35     105.3018     10531     105.3065     10530     0.99995     0.1     1.0000     0.36     106.3601     106.3648     10636     0.99996     0.1     0.0000     0.37     107.4291     10743     107.4338     107.43     107.4338     107.43     107.4338     108.5088     10851     108.5134     10851     0.99996     0.1     0.0000     0.39     109.5994     10960     109.6040     10960     0.99996     0.1     0.0000     0.39     0.1     0.0000     0.39     0.1     0.0000     0.41     111.8136     11182     111.8180     11181     0.99996     0.1     0.0000     0.42     112.9375     11294     112.9418     11294     0.99996     0.1     0.0000     0.43     114.0724     11408     114.0768     11407     0.99996     0.1     0.0000     0.44     115.2189     115.22     115.2233     11522     0.99996     0.1     0.0000     0.44     115.2189     11522     115.2233     11522     0.99996     0.1     0.0000     0.46     117.5466     11755     117.5508     11755     0.99996     0.1     0.0000     0.47     118.7280     118.73     118.7322     11873     118.7322     11873     118.7322     11873     118.7322     11873     118.7322     11873     119.9213     119.9213     119.9254     11992     0.99997     0.1     0.0000     0.100000     0.10000000000					_		1	1	
.36         106.3601         106.36         106.3648         106.36         .99996         0,1         .0000           .37         107.4291         10743         107.4338         10743         .99996         0,1         .0000           .38         108.5088         10851         108.5134         10851         .99996         0,1         .0000           .39         109.5994         10960         109.6040         10960         .99996         0,1         .0000           5.40         110.7009         11071         110.7055         11070         0.99996         0,1         .0000           .41         111.8136         11182         111.8180         11181         .99996         0,1         .0000           .42         112.9375         11294         112.9418         11294         .99996         0,1         .0000           .43         114.0724         11408         114.0768         11407         .99996         0,1         .0000           .44         115.2189         11522         115.2233         11522         .99996         0,1         .0000           5.45         116.3769         11638         116.3812         11638         0.99996         0,1 <td< td=""><td>5.25</td><td>105 2018</td><td>ていだって</td><td>105 2065</td><td>TOE 20</td><td>0.00001</td><td>0.7</td><td>T 0000</td><td> </td></td<>	5.25	105 2018	ていだって	105 2065	TOE 20	0.00001	0.7	T 0000	
.37       107.4291       10743       107.4338       10743       .99996       0,1       .0000         .38       108.5088       10851       108.5134       10851       .99996       0,1       .0000         .39       109.5994       10960       109.6040       10960       .99996       0,1       .0000         5.40       110.7009       11071       110.7055       11070       0.99996       0,1       .0000         .41       111.8136       11182       111.8180       11181       .99996       0,1       .0000         .42       112.9375       11204       112.9418       11204       .99996       0,1       .0000         .43       114.0724       11408       114.0768       11407       .99996       0,1       .0000         .44       115.2189       115.22       115.2233       11522       .99996       0,1       .0000         5.45       116.3769       11638       116.3812       11638       0.99996       0,1       .0000         .46       117.5466       11755       117.5508       11755       .99996       0,1       .0000         .48       119.9213       11993       119.0254       11992       .								1.	) ,
.38			-						
.39       109.5994       10960       109.6040       10960       .9996       0,1       .0000         5.40       110.7009       11071       110.7055       11070       0.99996       0,1       1.0000       0,         .41       111.8136       11182       111.8180       11181       .99996       0,1       .0000         .42       112.9375       11294       112.9418       11294       .99996       0,1       .0000         .43       114.0724       11408       114.0768       11407       .99996       0,1       .0000         .44       115.2189       11522       115.2233       11522       .99996       0,1       .0000         5.45       116.3769       11638       116.3812       11638       0.99996       0,1       .0000         .46       117.5466       11755       117.5508       11755       .99996       0,1       .0000         .47       118.7280       11873       118.7322       11873       .99996       0,1       .0000         .48       119.9213       11903       119.0224       11992       .99997       0,1       .0000         .49       121.1265       12113       121.1307       12113	28								
.41   111.8136   11182   111.8180   11181   .99996   0,1   .0000   .42   112.9375   11294   112.9418   11294   .99996   0,1   .0000   .43   114.0724   .11408   .114.0768   .11407   .99996   0,1   .0000   .44   .115.2189   .115.22   .115.2233   .115.22   .99996   0,1   .0000   .45   .116.3769   .116.3812   .116.38   0.99996   0,1   .0000   .46   .17.5466   .1755   .17.5508   .1755   .99996   0,1   .0000   .47   .118.7280   .11873   .118.7322   .11873   .99996   0,1   .0000   .48   .19.9213   .1993   .119.9254   .11992   .99997   0,1   .0000   .49   .121.1265   .12113   .121.1307   .12113   .99997   0,1   .0000   .49   .121.1265   .12113   .121.1307   .12113   .99997   0,1   .0000   .49   .121.1265   .12113   .121.1307   .12113   .99997   0,1   .0000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .10000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .100000   .1000000   .1000000   .10000000   .10000000000	4					7		La la tarte de la	
.41	5.40	110.7000	11071	110.7055	חליטו ז	0.00006	0.7	T 0000	
.42   112.9375   11294   112.9418   11294   .99996   0,1   .0000   .43   114.0724   11408   114.0768   11407   .99996   0,1   .0000   .44   115.2189   11522   115.2233   11522   .99996   0,1   .0000   .45   116.3769   .1638   116.3812   .1638   0.99996   0,1   .0000   .46   .17.5466   .1755   .17.5508   .1755   .99996   0,1   .0000   .47   .18.7280   .1873   .18.7322   .1873   .99996   0,1   .0000   .48   .19.9213   .1993   .19.9254   .1992   .99997   0,1   .0000   .49   .121.1265   .12113   .121.1307   .12113   .99997   0,1   .0000   .49   .121.1265   .12113   .121.1307   .12113   .99997   .10   .0000   .10   .0000   .10				TTT 8180					0,
.43   114.0724   11408   114.0768   11407   .99996   0,1   .0000   .44   115.2189   11522   115.2233   11522   .99996   0,1   .0000    5.45   116.3769   11638   116.3812   11638   0.99996   0,1   1.0000   0, .46   117.5466   11755   117.5508   11755   .99996   0,1   .0000   .47   118.7280   11873   118.7322   11873   .99996   0,1   .0000   .48   119.9213   11993   119.9254   11992   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000									
.44     I15.2189     I15.22     I15.2233     I15.22     .99996     0,1     .0000       5.45     I16.3769     I1638     I16.3812     I1638     0.99996     0,1     1.0000     0,4       .46     I17.5466     I17.55     I17.5508     I17.55     .99996     0,1     .0000       .47     I18.7280     I1873     118.7322     11873     .99996     0,1     .0000       .48     I19.9213     I1993     I19.9254     11992     .99997     0,1     .0000       .49     I21.1265     I2113     I21.1307     I2113     .99997     0,1     .0000									
5.45   116.3769   11638   116.3812   11638   0.99996   0,1   1.0000   0,4   117.5466   117.5508   117.5508   117.5508   117.5508   118.732   118.732   118.732   118.73   118.732   118.73   118.732   118.73   11									
.46   117,5466   11755   117,5508   11755   .99996   0,1   .0000   .47   118,7280   11873   118,7322   11873   .99996   0,1   .0000   .48   119,9213   11993   119,9254   11992   .99997   0,1   .0000   .49   121,1265   12113   121,1307   12113   .99997   0,1   .0000	5.12	116 2760	τίδοΩ	116 2812	7.162Q	0 00006			
.47   118.7280   11873   118.7322   11873   .99996   0,1   .0000   .48   119.9213   11993   119.9254   11992   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000								1.	O,
.48   119.9213   11993   119.9254   11992   .99997   0,1   .0000   .49   121.1265   12113   121.1307   12113   .99997   0,1   .0000									
.49 121.1265 12113 121.1307 12113 .99997 0,1 .0000	·4/								
5.50   122.3439   12235   122.3480   12234   0.99997   0,1   1.0000   0,		121.1203	1213		رددسد	• 9999/	0,1	10000	
	5.50	122.3439	12235	122.3480	12234	0.99997	0,1	1.0000	О,

5.50   122.3490   12235   122.3480   12234   0.99997   0,1   1.0000   0,0   5.51   123.5735   12382   124.8195   12482   .99997   0,1   .0000   .0000   5.52   124.8155   12482   124.8195   12482   .99997   0,1   .0000   .0000   5.53   126.0706   126079   1260.793   12607   .99997   0,1   .0000   .0000   5.54   127.3370   12734   127.3410   12734   .99997   0,1   .0000   .0000   5.55   128.6168   12862   128.6207   12862   0.99997   0,1   .0000   .0000   5.56   129.0905   12991   129.9133   12991   .99997   0,1   .0000   .0000   5.77   131.2151   13122   131.2190   13122   .99997   0,1   .0000   .0000   5.58   125.2339   13284   132.5377   13253   .99997   0,1   .0000   .0000   5.60   135.5703   13657   136.5739   13657   .99997   0,1   .0000   .0000   5.60   135.2114   13522   135.2150   13521   0.99997   0,1   .0000   .0000   6.61   136.5703   13657   136.5739   13657   .99997   0,1   .0000   .0000   6.62   137.9429   13795   137.9465   13794   .99997   0,1   .0000   .0000   6.63   130.3203   13033   130.3329   13033   130.3329   13033   130.3329   .3903   .0000   .0000   6.64   140.7200   14073   140.7331   14073   .99997   0,1   .0000   .0000   6.65   145.5726   14458   143.5761   14357   .99998   0,0   .0000   .0000   6.66   146.4730   14648   146.4749   144647   .99908   0,0   .0000   .0000   6.69   147.9451   14795   147.9485   14795   .99998   0,0   .0000   .0000   6.70   149.4330   15994   159.9373   15903   .99998   0,0   .0000   .0000   6.71   150.6273   16027   15023   15535   .99998   0,0   .0000   .0000   6.72   152.4508   15215   153.4541   15245   .99998   0,0   .0000   .0000   6.73   133.6439   15399   133.9863   15380   .99998   0,0   .0000   .0000   6.74   155.5506   1555   155.5381   1555   .99998   0,0   .0000   6.75   157.606   17536   17536   17536   17536   .99998   0,0   .0000   6.81   166.8081   16681   166.8111   16681   .99998   0,0   .0000   6.82   167.5360   17536   175.3635   17536   .99998   0,0   .0000   6.83   167.5360   17536   175.3635   17536   .99998   0,0   .0000   6.94   1	u.s.	sinh u	ω Fo	cosh u	ω F <sub>0</sub> ′	tanh u	ω F <sub>0</sub> ′	coth u	ω F₀′
.51   123.5735   123.58   123.5776   123.57   .99997   .0.1   .0000   .52   124.815   124.82   124.8195   124.82   124.8195   124.82   .53   126.0706   12607   126.0739   12607   .99997   .0.1   .0000   .54   127.3370   12607   126.0739   12607   .99997   .0.1   .0000   .5.55   129.0905   12901   129.0733   12901   .99997   .0.1   .0000   .5.55   129.0905   12901   129.0733   12901   .99997   .0.1   .0000   .57   131.1511   131.22   131.2190   131.22   .99997   .0.1   .0000   .58   132.5339   13254   132.5377   13253   .99997   .0.1   .0000   .5.60   135.2714   135.22   135.2156   135.215   .99997   .0.1   .0000   .5.60   135.2714   135.22   135.2156   135.215   .99997   .0.1   .0000   .61   136.5703   13657   136.5739   13657   .99997   .0.1   .0000   .62   137.9429   13795   136.5739   13657   .99997   .0.1   .0000   .63   139.3293   13933   139.3329   13933   199.3329   .99997   .0.1   .0000   .64   140.7226   14073   140.7331   44073   .99997   .0.1   .0000   .65   142.1440   14215   142.1475   14214   .99998   .0.0   .0000   .66   143.5726   14358   143.5761   14357   .99998   .0.0   .0000   .67   145.0155   14502   145.0190   14502   .99998   .0.0   .0000   .69   147.9451   14794   147.9485   14795   .99998   .0.0   .0000   .60   147.9451   14794   147.9485   14795   .99998   .0.0   .0000   .71   150.0339   15994   159.0327   15903   .99998   .0.0   .0000   .72   152.4508   15245   152.4541   15245   .99998   .0.0   .0000   .73   153.5930   15390   153.9683   153.88   .99998   .0.0   .0000   .74   155.5306   15553   155.5338   15553   .99998   .0.0   .0000   .75   160.2673   16027   160.2704   16027   .99998   .0.0   .0000   .76   184.831   16381   16681   16681   .99998   .0.0   .0000   .77   160.2673   16027   160.2704   16027   .99998   .0.0   .0000   .77   160.2673   16027   160.2704   16027   .99998   .0.0   .0000   .77   160.2673   16027   160.2704   16027   .99998   .0.0   .0000   .77   160.2673   16351   163.5086   173.608   173.608   .99998   .0.0   .0000   .88   161.874   18435   184.3544   184.									77.0
1.0000	5.50				12234	0.99997	0,1	1.0000	0,0
1.53   126.0700   12607   126.0730   12607   126.0730   12607   12607   1260730   1260730	.51	123.5735				99997	0,1	.0000	re differential en
.54         127.3370         12734         127.3410         12734         .99997         0.1         .0000           5.55         128.6168         12862         128.6207         12862         0.99997         0.1         1.0000         0,0           5.56         129.9095         12991         129.9133         12901         .99997         0.1         .0000         0,0           5.57         131.2151         13122         131.2190         13122         .99997         0.1         .0000           5.59         133.3659         13357         135251         0.99907         0.1         .0000           5.60         135.2114         13522         135.2150         13521         0.99907         0.1         .0000           6.61         135.7142         13527         135.6573         99907         0.1         .0000         0.0           6.62         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         137.9420         1370         147.3320         142.145         142.1475         142.14         0.	.52	124.8155	12482	124.8195	12482	•99997	0,1	.0000	Caracter Company
5.55   128.6168   12862   128.6207   12862   0.99997   0.1   1.0000   0.0   5.57   131.2151   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   13122   131.2190   130.2190   0.1   .0000   0.0   5.60   135.2114   13522   135.2150   13521   0.99997   0.1   .0000   0.0   6.61   136.5703   13657   136.5739   13657   .999997   0.1   .0000   0.0   6.62   137.9429   13795   137.9405   13794   .999997   0.1   .0000   0.0   6.63   139.3293   13933   13933   139332   13933   139332   13933   13934   13935   1399997   0.1   .0000   0.0    5.65   142.1440   14215   142.1475   14214   0.99998   0.0   1.0000   0.0   6.61   143.5726   14358   143.5761   14357   .99998   0.0   .0000   0.0   6.62   147.9451   14795   147.9485   14795   .99998   0.0   .0000   0.0   6.63   149.4320   14944   149.4354   14943   0.99998   0.0   .0000   0.0   7.71   150.9339   15994   152.4354   15	•53	126.0700	12607	126.0739	12607	-99997	0,1	.0000	
1.0000   1		127.3370	12734	127.3410	12734	-99997	0,1	.0000	
.56   129.9005   12901   129.9133   12901   .99007   0,1   .0000   .57   131.2151   132.21   31.2190   13122   313.2190   .99007   0,1   .0000   .58   132.530   13254   132.5377   13253   .99907   0,1   .0000   .59   .59   133.8659   13387   133.8697   13387   .99907   0,1   .0000   .50   .50   135.2114   .3522   .355.2150   .3521   .99907   0,1   .0000   .50   .50   .52   .37.9429   .3795   .37.9405   .3794   .99907   0,1   .0000   .50   .50   .52   .37.9420   .3795   .37.9405   .3794   .99907   0,1   .0000   .50   .50   .40   .40   .7200   .4073   .40   .7331   .40   .7331   .4073   .99907   0,1   .0000   .50   .56   .42.1440   .4215   .42.1475   .4214   .99908   0,0   .0000   .50   .56   .44.515   .4502   .45.5100   .4502   .45.5100   .4502   .99908   0,0   .0000   .50   .50   .50   .50   .50   .44   .	5 - 55	128.6168	12862	128.6207	12862	0.99997	0,1	1.0000	0.0
57         131.2151         13122         131.2150         13122         .00007         0,1         .0000           .58         132.5339         13284         132.5377         13233         .09097         0,1         .0000           5.60         135.2114         13522         135.5730         13657         .09097         0,1         .0000           6.01         136.5703         13657         136.5739         13657         .99997         0,1         .0000           6.2         137.9429         13795         137.9445         13794         .9997         0,1         .0000           6.3         139.3203         13033         139.333         .99997         0,1         .0000           6.4         140.7296         14073         140.7331         14073         .99997         0,1         .0000           6.5         142.1440         14215         142.1475         142.1475         .9998         0,0         1.0000           5.65         142.1440         142.1475         142.1475         .142.1475         .9998         0,0         .0000           6.67         143.5750         143.5076         .14302         .99998         0,0         .0000 <t< td=""><td></td><td>129.9095</td><td>12001</td><td>129.9133</td><td>12001</td><td>.00007</td><td></td><td>(1.17)</td><td></td></t<>		129.9095	12001	129.9133	12001	.00007		(1.17)	
.58         132,5339         13284         132,537         13387         133.8697         13387         133.8697         13387         133.8697         13387         133.8697         13387         133.8697         13387         133.8697         13387         133.8697         133.87         133.8697         133.87         133.8697         0,000         0,1         .0000         0,0           .61         136.5703         13057         130.5739         13657         .99997         0,1         .0000         0,0           .62         137.9429         13795         137.9465         13794         .99997         0,1         .0000           .64         140.7206         14073         14073         14973         .99997         0,1         .0000           .65         142.1440         14215         142.1475         14214         0.9998         0,0         .0000         0,0           .67         143.075         14368         143.6476         14464         149.935         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         14795         1479		131.2151	13122	131.2190	13122				
5.50	.58		13254						
.61 136.5703 13657 136.5730 13657 .00007 .0,1 .0000 .000 .000 .000 .0000								.0000	
.61 136.5703 13657 136.5730 13657 .00007 .0,1 .0000 .000 .000 .000 .0000	5.60	135.2114	13522	135.2150	13521	0.00007	0.1	1.0000	0.0
.62   137.9429   13795   137.9465   13794   .909907   0,1   .0000   .63   139.3293   139.3320   139.33   .909907   0,1   .0000   .64   140.7266   14073   140.7331   14073   .909907   0,1   .0000   .65   142.1440   14215   142.1475   14214   0.90908   0,0   .0000   .66   143.5726   14358   143.5761   14357   .90998   0,0   .0000   .67   145.0155   14622   145.0160   14502   .90998   0,0   .0000   .68   146.4730   14648   146.4764   14647   .90908   0,0   .0000   .69   147.9451   14795   147.9485   14795   .90908   0,0   .0000   .70   149.4320   14944   149.4335   14943   .90908   0,0   .0000   .71   150.9339   15904   150.9372   15003   .90908   0,0   .0000   .72   152.4508   15245   152.4541   15245   .90908   0,0   .0000   .73   153.9830   15399   153.9863   15308   .99908   0,0   .0000   .74   155.5306   15553   155.5338   15553   .99998   0,0   .0000   .75   148.6726   13868   138.6757   13867   .90908   0,0   .0000   .76   148.6726   13868   15811   160.2704   16027   .99998   0,0   .0000   .77   160.2673   16027   160.2704   16027   .99998   0,0   .0000   .78   161.8781   16188   161.8811   16188   .90998   0,0   .0000   .79   163.5050   16351   163.5080   16350   .90908   0,0   .0000   .81   171.8882   17189   171.8911   17189   .99998   0,0   .0000   .83   170.1779   17018   170.1808   17018   .99998   0,0   .0000   .84   171.8882   17189   171.8911   17180   .99998   0,0   .0000   .85   173.6158   17362   173.6186   17362   .99998   0,0   .0000   .86   175.3606   17536   175.3635   17536   .99998   0,0   .0000   .87   184.3517   18435   184.3541   18435   .99999   0,0   .0000   .89   180.7013   18070   180.7040   18070   .99998   0,0   .0000   .80   180.7013   18070   180.7040   18070   .99998   0,0   .0000   .80   180.7013   18070   180.7040   18070   .99999   0,0   .0000   .80   180.7013   18070   180.7040   18070   .99999   0,0   .0000   .90   195.7516   19575   195.7541   19575   .99999   0,0   .0000   .90   190.7061   19071   190.7066   19071   .99999   0,0   .0000   .90   190.7061   19071   190.70		136.5703				1 5555		t	0,0
.63   139.3293   139.33   139.3329   139.33   .99997   0,1   .0000   .64   140.7266   14073   140.7331   14073   .99997   0,1   .0000   .65   142.1440   14215   142.1475   14214   0.99998   0,0   1.0000   0,0   .66   143.5726   14385   143.5761   14357   .99998   0,0   .0000   .67   145.0155   14502   145.0190   14502   .99998   0,0   .0000   .68   146.4730   14648   146.4764   14647   .99998   0,0   .0000   .69   147.9451   14795   147.9485   14795   .99998   0,0   .0000   .70   149.4320   14944   149.4354   14943   0.9998   0,0   .0000   .71   150.9339   15094   150.9372   15003   .99998   0,0   .0000   .72   152.4508   15245   152.4541   15245   .99998   0,0   .0000   .73   153.9830   15399   153.9963   15308   .99998   0,0   .0000   .74   155.5306   15553   155.5338   15553   .99998   0,0   .0000   .76   138.6726   15868   158.6757   15867   .99998   0,0   .0000   .76   138.6726   15868   158.6757   15867   .99998   0,0   .0000   .76   158.6726   15868   158.6757   15867   .99998   0,0   .0000   .76   158.6726   15868   158.6757   1567   .99998   0,0   .0000   .77   160.2673   16027   160.2744   16027   .99998   0,0   .0000   .78   161.8781   16188   161.8811   16188   .99998   0,0   .0000   .79   163.5050   16351   163.5080   16350   .99998   0,0   .0000   .82   168.4845   16681   166.8111   16681   .99998   0,0   .0000   .83   170.1779   17018   170.1808   17018   .99998   0,0   .0000   .84   171.8882   177189   171.8911   17188   .99998   0,0   .0000   .85   173.6158   17362   173.6186   17362   0.99998   0,0   .0000   .86   175.3606   17536   175.3635   17536   .99998   0,0   .0000   .87   177.1231   1771   17018   177.1250   17712   .99998   0,0   .0000   .88   188.0791   188.991   188.0900   199090   0,0   .0000   .90   182.5174   18252   182.5201   18252   0.99998   0,0   .0000   .90   182.5174   18252   182.5201   18252   0.99998   0,0   .0000   .90   199.7061   19971   199.7086   19971   .99999   0,0   .0000   .90   199.7061   19971   199.7086   19971   .99999   0,0   .0000   .90   199.7061   19971									
.64         140.7296         14073         140.7331         14073         .99997         0,1         .0000           5.65         142.1440         14215         142.1475         14214         0.99998         0,0         1.0000         0,0           .66         143.5726         14358         143.15701         14357         .99998         0,0         .0000           .68         146.4730         14648         146.4764         14647         .99998         0,0         .0000           .69         147.9451         14795         147.9485         14795         .99998         0,0         .0000           .70         149.4320         14944         149.4354         14943         .99998         0,0         .0000           .71         150.9339         15994         150.9372         15903         .99998         0,0         .0000           .72         152.4581         1522.4541         15245         .99998         0,0         .0000           .73         153.9830         15399         153.9863         15388         .99998         0,0         .0000           .74         158.6726         1888         158.6757         15867         199998         0,0         .00	.63		P						i.
.66									
.66	- 6-	110 T/10	TEATE	T40: T405:	TAOTA	0 00000		• 0000	
.67									0,0
.68									ta ilia da da da da da da da da da da da da da
.69         147.9451         147.95         147.0485         14795         .99998         0,0         .0000           5.70         149.4320         14944         149.4354         14943         0.99998         0,0         1.0000         0,0           .71         152.4308         15245         152.4541         15245         .99998         0,0         .0000           .72         152.4508         153.98         153.9863         15309         153.9863         15308         .99998         0,0         .0000           .74         155.5306         15553         155.5338         15399         0,0         .0000         .0000           .75         158.6726         15868         1586.757         15867         .99998         0,0         .0000         .0000           .76         163.6726         15868         158.6757         15867         .99998         0,0         .0000         .0000           .77         163.5950         16351         161.8811         16188         161.8811         16188         .99998         0,0         .0000           .78         161.4831         16515         165.1513         16515         .0350         .99998         0,0         .0000 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>and the second second second</td> <td></td>								and the second second second	
5.70         149.44320         14944         149.4354         14943         0.99998         0,0         1.0000         0,0           .71         150.9339         15094         150.9372         15093         .99908         0,0         .0000           .72         152.4508         15245         152.4541         152.45         .99908         0,0         .0000           .73         153.9830         15399         153.9863         15398         .99998         0,0         .0000           .74         155.5308         15553         15553         .99998         0,0         .0000           .76         158.6726         15868         158.6727         158.6726         15869         15809         0,0         .0000           .77         160.2673         16027         160.2704         1602.7         .99998         0,0         .0000           .78         161.8781         161.8811         16188         163.5080         16350         .99998         0,0         .0000           .79         163.5080         16351         165.1513         16515         .99998         0,0         .0000           .81         166.8081         16681         16681         16350         .									
150.9339   150.94   150.9372   150.93   .09098   0,0   .0000   .72   152.4508   15245   152.4541   152.45   .99098   0,0   .0000   .73   153.9830   153.983   153.983   153.983   .99098   0,0   .0000   .74   155.5306   15553   155.5338   15553   .99098   0,0   .0000   .76   158.6726   15868   15867   15867   .99098   0,0   .0000   .76   158.6726   15868   158677   15867   .99098   0,0   .0000   .77   160.2673   160.27   160.2704   160.27   .99098   0,0   .0000   .79   163.5050   16351   163.5080   16350   .99098   0,0   .0000   .79   163.5050   16351   165.1513   16515   0.99998   0,0   .0000   .79   163.4845   16681   166.8111   16681   .99098   0,0   .0000   .81   166.8081   16681   166.8111   16681   .99098   0,0   .0000   .82   178.4845   16849   168.4875   16848   .99998   0,0   .0000   .84   171.8882   17189   171.8911   17189   .99098   0,0   .0000   .84   171.8882   17189   171.8911   17189   .99098   0,0   .0000   .86   175.3606   175.3605   175.3635   175.36   .99098   0,0   .0000   .87   177.1231   177.13   177.1259   177.12   .99098   0,0   .0000   .89   180.7013   18070   180.7040   18070   .99099   0,0   .0000   .90   .91   184.3517   18435   184.3544   18435   .99099   0,0   .0000   .90   .91   184.3517   18435   184.3544   18435   .99099   0,0   .0000   .90   .91   184.3517   18435   184.3544   18435   .99099   0,0   .0000   .90   .91   184.3517   18435   184.3544   18435   .99099   0,0   .0000   .90	.09	147.9451	14795	147.9485	14795	99998	0,0	.0000	
.72   152.4508   15245   152.4541   15245	5.70	149.4320					0,0	1.0000	0,0
.73	.71	150.9339	15094	150.9372	15093	99998	0,0	.0000	
.74         155.5306         15553         155.5338         15553         .99998         0,0         .0000           5.75         157.0938         15710         157.0960         15709         0.09998         0,0         1.0000         0,0           .76         158.6726         15868         r58.6757         15867         .99998         0,0         .0000           .77         160.2673         16027         160.27         .99998         0,0         .0000           .78         161.8781         16188         161.8811         16188         .99998         0,0         .0000           .79         163.5050         16351         16350         16350         .99998         0,0         .0000           .81         166.8011         166.8111         16681         .99998         0,0         .0000           .81         166.8081         1668.111         16681         .99998         0,0         .0000           .82         168.4845         16649         168.4875         16848         .99998         0,0         .0000           .83         170.1779         17018         171.891         17189         .99998         0,0         .0000           .84	.72	152.4508	15245	152.4541	15245	. 99998	0,0	.0000	
.74         155.5306         15553         155.5338         15553         .99998         0,0         .0000           5.75         157.0938         15710         157.0969         15709         0.99998         0,0         1.0000         0,0           .76         158.6726         15868         158.6757         15867         .99998         0,0         .0000           .77         160.2673         160.27         160.2704         160.27         .99998         0,0         .0000           .78         161.8781         16188         161.8811         16188         .99998         0,0         .0000           .79         163.5050         16351         16515         .09998         0,0         .0000           .81         166.8081         16681         166.8111         16681         .99998         0,0         .0000           .82         168.4845         16849         168.4875         16848         .99998         0,0         .0000           .83         170.1779         17018         170.1808         17018         .90998         0,0         .0000           .84         173.6188         1733.6185         1735.6186         175.3635         17536         .99998	.73	153.9830	15399	153.9863	15398	.99998	0,0	.0000	
.76         158.6726         15868         r\$8.6757         15867         .99998         0,0         .0000           .77         160.2673         16027         160270         16027         .99998         0,0         .0000           .78         161.8781         16188         161.8811         16188         .99998         0,0         .0000           .79         163.5050         16351         163.5080         16350         .99998         0,0         .0000           5.80         165.1483         16515         165.1513         16515         0.99998         0,0         .0000           .81         166.8081         16681         166.8111         16681         .99998         0,0         .0000           .82         168.4845         16849         168.4875         16848         .99998         0,0         .0000           .83         170.1779         17018         170.1808         17018         .99998         0,0         .0000           .84         171.8882         17189         171.8911         17189         .99998         0,0         .0000           .85         173.6158         173.6186         173.62         0.99998         0,0         .0000      <	•74	155.5306	15553	155.5338	15553	.99998	0,0	.0000	
.76         158.6726         15868         r\$8.6757         15867         .99998         0,0         .0000           .77         160.2673         16027         160270         16027         .99998         0,0         .0000           .78         161.8781         16188         161.8811         16188         .99998         0,0         .0000           .79         163.5050         16351         163.5080         16350         .99998         0,0         .0000           5.80         165.1483         16515         165.1513         16515         0.99998         0,0         .0000           .81         166.8081         16681         166.8111         16681         .99998         0,0         .0000           .82         168.4845         16849         168.4875         16848         .99998         0,0         .0000           .83         170.1779         17018         170.1808         17018         .99998         0,0         .0000           .84         171.8882         17189         171.8911         17189         .99998         0,0         .0000           .85         173.6158         173.6186         173.62         0.99998         0,0         .0000      <	5.75	157.0938	15710	157.0969	15700	0.99998	0,0	1.0000	0.0
.77			15868	158.6757	15867				English Sand
.78    161.8781    16188    161.8811    16188    .99998    0,0									D PARTY I
.79         163.5050         16351         163.5080         16350         .99998         0,0         .0000           5.80         165.1483         16515         165.1513         16515         0.99998         0,0         .0000           .81         166.8081         16681         166.8111         16681         .99998         0,0         .0000           .82         168.4845         16849         168.4875         16848         .99998         0,0         .0000           .83         170.1779         17018         170.1808         17018         .99998         0,0         .0000           .84         171.8882         17189         171.8911         17189         .99998         0,0         .0000           5.85         173.6158         173.62         173.6186         173.62         0.99998         0,0         .0000           .86         175.3606         17536         175.3635         17536         .99998         0,0         .0000           .87         177.1231         1771.1259         1771.12         .99998         0,0         .0000           .89         180.7013         18070         18070         .99998         0,0         .0000           .89								1	
.81       166.8081       16681       166.811       16681       .99998       0,0       .0000         .82       168.4845       16849       168.4875       16848       .99998       0,0       .0000         .83       170.1779       17018       170.1808       17018       .99998       0,0       .0000         .84       171.8882       17189       171.8911       17189       .99998       0,0       .0000         5.85       173.6158       17362       173.6186       17356       .99998       0,0       .0000         .86       175.3605       175.363       175.365       .99998       0,0       .0000         .87       177.1231       17713       177.1259       17712       .99998       0,0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0,0       .0000         .89       180.7013       18070       18090       .99998       0,0       .0000         .81       178.9032       17891       17890       .99998       0,0       .0000         .90       182.5174       18252       182.5201       18252       0.99998       0,0       .0000	.79							1	
.81       166.8081       16681       166.811       16681       .99998       0,0       .0000         .82       168.4845       16849       168.4875       16848       .99998       0,0       .0000         .83       170.1779       170.1808       17018       .99998       0,0       .0000         .84       171.8882       17189       171.8911       17189       .99998       0,0       .0000         5.85       173.6158       173.62       173.6186       173.62       0.99998       0,0       .0000         .86       175.3605       175.36       175.363       175.36       .99998       0,0       .0000         .87       177.1231       17713       177.1259       17712       .99998       0,0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0,0       .0000         .89       180.7013       18070       18070       .99998       0,0       .0000         .90       182.5174       18252       182.5201       18252       0.99998       0,0       .0000         .91       184.3517       18435       184.3544       18435       .99999       0,0       .0000	5.80	T65 T482	THETE	165 1512	THETE	0.00008	-0.0	T 0000	00
.82       168.4845       16849       168.4875       16848       .99998       0,0       .0000         .83       170.1779       17018       170.1808       17018       .99998       0,0       .0000         .84       171.8882       17189       171.891       17189       .99998       0,0       .0000         5.85       173.6158       17362       173.6186       17362       0.99998       0,0       1.0000       0,0         .86       175.3606       17536       175.3635       17536       .99998       0,0       .0000         .87       177.1231       1771.371       177.1259       17712       .99998       0,0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0,0       .0000         .89       180.7013       18070       180.7040       18070       .99998       0,0       .0000         .90       182.5174       18252       182.5201       18252       0.99998       0,0       1.0000       0,0         .91       184.3517       18435       1844.3544       18435       .99999       0,0       .0000       .90         .92       186.2045       18621 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>0,0</td>									0,0
.83       170.1779       17018       170.1808       17018       .99998       0,0       .0000         .84       171.8882       17189       171.8911       17189       .99998       0,0       .0000         5.85       173.6158       17362       173.6186       17362       0.99998       0,0       1.0000       0,0         .86       175.3606       17536       175.3635       17536       .99998       0,0       .0000         .87       177.1231       177.1259       17712       .99998       0,0       .0000         .89       180.7013       180.7040       180.7040       18070       .99998       0,0       .0000         .89       180.7013       180.7040       180.7040       18070       .99998       0,0       .0000         .89       182.5174       18252       182.5201       18252       0.99998       0,0       1.0000       0,0         .90       184.3517       18435       184.3544       18435       .99999       0,0       .0000         .91       184.3517       18435       184.2544       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786 <td< td=""><td>82</td><td>168 484E</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	82	168 484E							
.84       171.8882       17189       171.8911       17189       .99998       0,0       .0000         5.85       173.6158       17362       173.6186       17352       0.99998       0,0       1.0000       0,0         .86       175.3606       17536       175.3635       17536       .99998       0,0       .0000         .87       177.1231       17713       177.1259       17712       .99998       0,0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0,0       .0000         .89       180.7013       18070       180.7040       18070       .99998       0,0       .0000         .89       182.5174       18252       182.5201       18252       0.99998       0,0       .0000         .91       184.3517       18435       184.3544       18435       .99999       0,0       .0000         .92       186.2045       18621       186.2072       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0,0       .0000         .94       189.9661       18997       189.9688       198.									
5.85       173.6158       17362       173.6186       173.62       0.99998       0.0       1.0000       0,0         .86       175.3606       17536       175.3635       17536       .99998       0.0       .0000         .87       177.1231       17713       177.1259       17712       .99998       0.0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0.0       .0000         .89       180.7013       180.7040       18070       .99998       0.0       .0000         .90       182.5174       18252       182.5201       18252       0.99998       0.0       .0000         .91       184.3517       18435       184.3544       18435       .99999       0.0       .0000         .92       186.2045       18621       186.2072       18620       .99999       0.0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0.0       .0000         .94       189.9661       18907       19188       0.99999       0.0       .0000         .95       191.8754       19188       191.8780       19188       0.99999       0.0		171.8882						1 - 1 - 1	
.86	- 0-		×#262	6-06	60	0 00000			
.87       177.1231       17713       177.1259       17712       .99998       0,0       .0000         .88       178.9032       17891       178.9060       17890       .99998       0,0       .0000         .89       180.7013       18070       180.7040       18070       .99998       0,0       .0000         5.90       182.5174       18252       182.5201       18252       0.99999       0,0       .0000         .91       184.3517       18435       184.3544       18435       .99999       0,0       .0000         .92       186.2045       18621       186.2072       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0,0       .0000         .94       189.9661       18997       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99999       0,0       .0000         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000         .97       195.7516       19575       195.7541       19575       .9	5.05								0,0
.88   178.9032   17891   178.9060   17890   .99998   0,0   .0000   .89   180.7013   18070   180.7040   18070   .99998   0,0   .0000   5.90   182.5174   18252   182.5201   18252   0.99998   0,0   1.0000   0,0   .91   184.3517   18435   184.3544   18435   .99999   0,0   .0000   .92   186.2045   18621   186.2072   18620   .99999   0,0   .0000   .93   188.0759   18808   188.0786   18808   .99999   0,0   .0000   .94   189.9661   18997   189.9688   18997   .99999   0,0   .0000   .95   191.8754   19188   191.8780   19188   0.99999   0,0   .0000   .96   193.8038   19381   193.8064   19380   .99999   0,0   .0000   .97   195.7516   19575   195.7541   19575   .99999   0,0   .0000   .98   197.7189   19772   197.7214   19772   .99999   0,0   .0000   .99   199.7061   19971   199.7086   19971   .99999   0,0   .0000   .90   201.7132   20172   201.7156   20171   0.99999   0,0   1.0000   0,0   .90   0.0000   0.0000   .90   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000   0.0000   .90   0.0000	.00								1
.89       180.7013       180.70       180.7040       180.70       .99998       0,0       .0000         5.90       182.5174       18252       182.5201       18252       0.99998       0,0       1.0000       0,0         .91       184.3517       18435       184.3544       18435       .99999       0,0       .0000         .92       186.2045       18621       186.2072       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0,0       .0000         .94       189.9661       18997       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99999       0,0       .0000         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000         .97       195.7516       19575       195.7541       19575       .99999       0,0       .0000         .98       197.7189       19772       197.7214       19772       .99999       0,0       .0000         .99       199.7061       19971       199.7086       1	.0/								
5.90       182.5174       18252       182.5201       18252       0.99998       0,0       1.0000       0,0         .91       184.3517       18435       184.3544       18435       .99999       0,0       .0000         .92       186.2045       18621       186.2072       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0,0       .0000         .94       189.9661       18997       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99999       0,0       .0000         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000         .97       195.7516       19575       195.7541       19575       .99999       0,0       .0000         .98       197,7189       19772       197,7214       19772       .99999       0,0       .0000         .99       199.7061       19971       199.7086       19971       .99999       0,0       .0000         6.00       201.7132       20172       201.7156       20								1	1 1 1 1 1
.91 184.3517 18435 184.3544 18435 .99999 0,0 .0000 .92 186.2045 18621 186.2072 18620 .99999 0,0 .0000 .93 188.0759 18808 188.0786 18808 .99999 0,0 .0000 .94 189.9661 18997 189.9688 18997 .99999 0,0 .0000  5.95 191.8754 19188 191.8780 19188 0.99999 0,0 .0000 .96 193.8038 19381 193.8064 19380 .99999 0,0 .0000 .97 195.7516 19575 195.7541 19575 .99999 0,0 .0000 .98 197.7189 19772 197.7214 19772 .99999 0,0 .0000 .99 199.7061 19971 199.7086 19971 .99999 0,0 .0000 .90 199.7061 19971 199.7086 19971 0.99999 0,0 .0000 .90 201.7132 20172 201.7156 20171 0.99999 0,0 1.0000 0,0	.89	180.7013	18070	180.7040	18070	199998	0,0	.0000	
.91   184.3517   18435   184.3544   18435   .99999   0,0   .0000   .92   186.2045   186.2072   186.2072   18620   .99999   0,0   .0000   .93   188.0759   18808   188.0786   18808   .99999   0,0   .0000   .94   189.9661   18997   189.9688   18997   .99999   0,0   .0000   .95   191.8754   19188   191.8780   19188   0.99999   0,0   .0000   .96   193.8038   19381   193.8064   19380   .99999   0,0   .0000   .97   195.7516   19575   195.7541   19575   .99999   0,0   .0000   .98   197.7189   19772   197.7214   19772   .99999   0,0   .0000   .99   199.7061   19971   199.7086   19971   .99999   0,0   .0000   .99   199.7061   19971   199.7086   19971   0.99999   0,0   .0000   .90			18252			0.99998	0,0	1.0000	0,0
.92       186.2045       18621       186.2072       18620       .99999       0,0       .0000         .93       188.0759       18808       188.0786       18808       .99999       0,0       .0000         .94       189.9661       18997       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99999       0,0       1.0000       0,0         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000       .0000         .97       195.7516       19575       195.7541       19575       .99999       0,0       .0000         .98       197.7189       19772       197.7214       19772       .99999       0,0       .0000         .99       199.7061       19971       199.7086       19971       .99999       0,0       .0000         6.00       201.7132       20172       201.7156       20171       0.99999       0,0       1.0000       0,0	.91	184.3517	18435	184.3544		.99999	0,0		
.94       189.9661       189.97       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99099       0,0       1.0000       0,0         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000         .97       195.7516       195.75       195.7541       195.75       .99999       0,0       .0000         .98       197.7189       197.72       197.7214       19772       .99999       0,0       .0000         .99       199.7061       19971       199.7086       19971       .99999       0,0       .0000         6.00       201.7132       20172       201.7156       20171       0.99999       0,0       1.0000       0,0	.92	186.2045	18621	186.2072	18620	•99999	0,0	.0000	
.94       189.9661       189.97       189.9688       18997       .99999       0,0       .0000         5.95       191.8754       19188       191.8780       19188       0.99099       0,0       1.0000       0,0         .96       193.8038       19381       193.8064       19380       .99999       0,0       .0000         .97       195.7516       195.75       195.7541       195.75       .99999       0,0       .0000         .98       197.7189       197.72       197.7214       19772       .99999       0,0       .0000         .99       199.7061       19971       199.7086       19971       .99999       0,0       .0000         6.00       201.7132       20172       201.7156       20171       0.99999       0,0       1.0000       0,0	•93	188.0759	18808	188.0786	18808	.99999	0,0	,0000	
.96		189.9661	18997	189.9688	18997			.0000	
.96	5.95	101.8754	19188	191.8780	19188	0.00000	0.0	1,0000	0.0
.97   195.7516   195.75   195.7541   195.75   .99999   0,0   .0000   .98   197.7189   197.7214   197.72   .99999   0,0   .0000   .99   199.7061   199.7086   19971   .99999   0,0   .0000   .0			19381		10380				1
.98   197.7189   197.72   197.7214   197.72   .99999   0,0   .0000   .99   199.7061   199.7086   19971   .99999   0,0   .0000				105.7541					
.99 199.7061 19971 199.7086 19971 .99999 0,0 .0000 6.00 201.7132 20172 201.7156 20171 0.99999 0,0 1.0000 0,0									1
6.00 201.7132 20172 201.7156 20171 0.99999 0,0 1.0000 0,0								. 4	
u tan gd u ω F <sub>0</sub> ' sec gd u ω F <sub>0</sub> ' sin gd u ω F <sub>0</sub> ' csc αd u ω F <sub>0</sub> '	6.00	201,7132	20172	201.7156	20171	0.99999	0,0	1.0000	
	u	tan gd u	ω F <sub>0</sub> ′	sec gd u	ω F <sub>0</sub> ′	sin gd u		ese gd u	ω F <sub>0</sub> ′

# TABLE III NATURAL AND LOGARITHMIC CIRCULAR FUNCTIONS

u sin u  0.0000 0.00000 .0001 .00010 .0002 0.00020 .0003 .0003 .0004 .00040 .0005 0.0005 .0006 .0006 .0007 .0007 .0008 .0008 .0009 .00090  0.0010 0.0010 .0011 .00112 .0012 .00124 .0013 .0014 .00144  0.0015 0.0016 .0016 .0016 .0017 .0017 .0018 .0018 .0019 .00190  0.0020 0.00200 .0021 .0021 .0022 .0023 .0024 .00240  0.0025 0.0026 .0026 .0026 .0027 .0028 .0028 .0028 .0029 .00290  0.0030 .00310 .00311 .0032 .0036 .0037 .0037 .0038 .0038 .0039 .00390  0.0040 .00401 .0041 .0042 .00424 .0043 .00436 .0040 .00460 .0041 .00446 .0045 .00466 .0046 .00466 .0047 .00476		Fo' cos u	ω Fo'	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u .
.0001 .00016 .0002 .00036 .0004 .00046 0.0005 .0006 .0007 .0007 .0008 .0008 .0009 .00010 .0011 .0012 .0013 .0013 .0014 .00144 0.0015 .0016 .0017 .0017 .0018 .0016 .0017 .0017 .0018 .0016 .0019 .0020 .0021 .0021 .0022 .0023 .0024 .00244 0.0025 .0026 .0027 .0028 .0029 .00296 0.0030 .0030 .0031 .0031 .0032 .0036 .0031 .0036 .0031 .0036 .0031 .0036 .0031 .0036 .0031 .0036 .0037 .0037 .0038 .0038 .0039 .00396 0.0036 .0036 .0037 .0037 .0038 .0038 .0039 .00396 0.0040 .00400 .0041 .00444 0.0045 .00426	ιμ ωF <sub>0</sub> ′			100 3.11 4				
.0001 .00016 .0002 .00030 .0004 .00046 0.0005 .0006 .0007 .0007 .0008 .0009 0.0010 .0010 .0011 .0012 .0013 .0013 .0014 .00144 0.0015 .0016 .0017 .0017 .0018 .0016 .0019 .00190 0.0020 .0020 .0021 .0021 .0022 .0023 .0024 .00240 0.0025 .0026 .0027 .0028 .0029 .00290 0.0030 .0030 .0031 .0031 .0032 .0033 .0034 .00340 0.0035 .0036 .0037 .0037 .0038 .0038 .0039 .00390 0.0040 .00400 .0041 .00410 .0042 .00424 0.0045 .00460	0,000 10,0	0.00000	0,0	— x	+ ∞	0.00000	0,0	0 00 00 00
.0002 .0003 .0004 .0005 .0006 .0007 .0006 .0007 .0008 .0009 .00010 .0011 .0012 .0013 .0014 .0014 .0015 .0016 .0017 .0018 .0019 .0019 .0020 .0021 .0021 .0022 .0023 .0024 .0024 .0025 .0026 .0026 .0026 .0026 .0027 .0028 .0029 .0029 .0021 .0029 .0021 .0025 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0029 .0030 .0031 .0031 .0031 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0037 .0038 .0036 .0037 .0038 .0039		.00000	-,-	6.00000	43429,4	.00000	0,0	0 00 20.63
.0003 .0004 .0004 .0005 .0006 .0007 .0008 .0009 .0006 .0007 .0008 .0009 .00010 .0011 .0012 .0013 .0014 .0014 .0015 .0016 .0017 .0018 .0019 .0019 .0020 .0021 .0021 .0022 .0023 .0024 .0024 .0024 .0025 .0026 .0026 .0027 .0026 .0027 .0028 .0029 .0029 .0029 .0020 .0021 .0025 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0029 .0029 .0030 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0037 .0036 .0037 .0038 .0039		.00000	ļ	.30103	21714,7	00000		0 00 41.25
.0004 .0004  0.0005 .0006 .0007 .0006 .0007 .0008 .0008 .0009  0.0010 .0010 .0011 .0013 .0013 .0014 .0016 .0015 .0016 .0017 .0018 .0018 .0019 .0019  0.0020 .0020 .0021 .0021 .0022 .0023 .0024 .0024  0.0025 .0026 .0026 .0026 .0027 .0027 .0028 .0028 .0029 .00290  0.0030 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0037 .0036 .0037 .0036 .0037 .0036 .0036 .0036 .0037 .0037 .0038 .0038 .0039 .00390  0.0040 .00400 .0041 .0041 .0042 .0042 .0043 .0044  0.0045 .0046		.00000		.47712	14476,5	.00000		0 01 01.88
.0006 .0007 .0008 .0009 .0009 .0009 .0009 .0010 .0011 .0012 .0013 .0014 .0014 .0015 .0016 .0017 .0018 .0019 .0019 .0020 .0021 .0021 .0022 .0023 .0024 .0024 .0025 .0026 .0026 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0029 .0029 .0030 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0037 .0036 .0037 .0038 .0039		.00000		60206	10857,4	.00000		O OI 22.51
.0006 .0007 .0008 .0009 .0009 .0009 .0009 .0010 .0011 .0012 .0013 .0014 .0014 .0015 .0016 .0017 .0018 .0019 .0019 .0020 .0021 .0021 .0022 .0023 .0024 .0024 .0025 .0026 .0026 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0029 .0029 .0030 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0037 .0036 .0037 .0038 .0039				( (-0	060			
.0007 .00076 .0008 .00086 .0009 .00000 0.0010 .00101 .0011 .00112 .0013 .00136 .0016 .0016 .0017 .00176 .0018 .00186 .0019 .00190 0.0020 .00200 .0021 .00212 .0022 .00224 .0023 .00236 .0026 .00266 .0027 .00276 .0026 .00266 .0027 .00276 .0028 .0029 0.0030 .00300 .0031 .0032 .0031 .0032 .0033 .00336 .0034 .00346 0.0035 .00366 .0037 .00376 .0036 .00366 .0037 .00376 .0038 .00390 0.0040 .00400 .0041 .00410 .0041 .00424 0.0045 .00466		.00000	0,0	6.69897 .77815	8685,9 7238,2	0.00000	0,0	0 01 43.13
.0008 .0009 .0009 .0009 .0009 .0010 .0011 .0012 .0013 .0014 .0015 .0016 .0016 .0017 .0018 .0019 .0019 .0020 .0021 .0021 .0021 .0022 .0023 .0024 .0024 .0024 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0029 .0030 .0031 .0031 .0032 .0034 .0034 .0034 .0035 .0036 .0037 .0036 .0037 .0038 .0036 .0037 .0038 .0038 .0039 .0039 .0040 .0041 .0042 .0042 .0042 .0043 .0044 .00444 .00444 .00445 .0046 .0045 .0040 .00405 .00405 .00406 .00406	1 .	.00000		.84510	6204,2	.00000		0 02 24.39
0.0009 .00000 0.0010 0.0010 0.0011 .00114 0.0013 .00134 0.0015 .0016 0.0017 .0017 0.018 .0019 0.0020 0.00200 0.0021 .0021 0.0022 .00224 0.0022 .00224 0.0025 0.0025 0.0026 .0026 0.0027 .0028 0.0029 .00200 0.0030 0.0030 0.0031 .0031 0.0032 .00324 0.0035 0.0035 0.0036 .0036 0.0037 .0037 0.0038 .0038 0.0039 0.0030 0.0030 0.0030 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.0031 .00310 0.00340 .00340 0.0040 0.00400 0.0040 0.00400 0.0041 .00440 0.0045 0.0045		.00000	ì	.90309	5428,7	.00000	•	0 02 45.01
.0011 .00116 .00124 .00131 .00144 .0015 .0016 .0016 .0016 .0016 .0016 .0016 .0016 .0016 .0019 .0019 .0020 .0021 .0022 .0023 .0024 .0024 .0024 .0026 .0036 .0		.00000		95424	4825,5	.00000		0 03 05.64
.0011 .00116 .00124 .00131 .00144 .0015 .0016 .0016 .0016 .0016 .0016 .0016 .0016 .0016 .0016 .0017 .0018 .0018 .0019 .0020 .0021 .0022 .0023 .0024 .0024 .0024 .0026 .0036 .0046 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0046 .0	100	V 00000	00			0.0000		0 00 06 06
.0012 .00128 .0013 .0014  0.0015 .0016 .0016 .0016 .0017 .0017 .0018 .0019  0.0020 .0020 .0021 .0021 .0022 .0023 .0024 .0024  0.0025 .0025 .0026 .0026 .0027 .0027 .0028 .0029  0.0030 .0031 .0031 .0031 .0032 .0034 .0034 .0034  0.0035 .0036 .0037 .0037 .0038 .0036 .0037 .0037 .0038 .0038 .0039 .0039  0.0040 .0040 .0041 .0042 .0042 .0043 .0044  0.0045 .0046 .0046		.00000	0,0	7.00000	4342,9	.00000	0,0	0 03 26.26
.0013 .00134 .0014 .00144 0.0015 .00165 .0016 .00166 .0017 .00174 .0018 .00190 0.0020 .00200 .0021 .00214 .0022 .00224 .0023 .00234 .0024 .00244 0.0025 .0026 .0027 .0026 .0027 .0028 .0029 .00290 0.0030 .0031 .0031 .0031 .0031 .0031 .0032 .00334 .0034 .00344 0.0035 .0036 .0036 .0037 .00376 .0036 .0036 .0037 .00376 .0038 .00390 0.0040 .00400 .0041 .00424 .0042 .00424 .0043 .00444	2.3.3.2.2	.00000		.04139	3948,1 3619,1	.00000		0 03 40.69
.0014 .00144  0.0015 .0016 .0016 .0016 .0017 .0018 .0019 .0019  0.0020 .0021 .0021 .0021 .0022 .0023 .0024 .0024  0.0025 .0026 .0026 .0026 .0027 .0028 .0029 .0029  0.0030 .0031 .0031 .0032 .0031 .0032 .0033 .0034  0.0035 .0036 .0037 .0036 .0037 .0038 .0039 .0039  0.0040 .0041 .0041 .0042 .0043 .0044  0.0045 .0046 .0046		.00000		07918		.00000		0 04 07.32
0.0015		.00000	-	.11394	3340,7 3102,1	.00000		0 04 48.77
.0016 .0016 .0017 .0018 .0018 .0019 .0019 .0019 .0020 .0020 .0021 .0021 .0022 .0023 .0024 .0024 .0025 .0026 .0026 .0026 .0027 .0028 .0029 .0029 .0030 .0031 .0031 .0032 .0031 .0032 .0034 .0036 .0037 .0037 .0036 .0036 .0037 .0037 .0036 .0038 .0038 .0039 .0039 .0039 .0039 .0040 .0040 .0041 .0041 .0042 .0042 .0043 .0044 .0045 .0046			1			100000		3 34 43.77
.0017 .0018 .0019 .0019 .0019 .0020 .0021 .0022 .0023 .0024 .0024 .0024 .0025 .0026 .0026 .0027 .0028 .0029 .0029 .0030 .0031 .0031 .0031 .0031 .0032 .0036 .0036 .0036 .0036 .0037 .0038 .0039 .0040 .0041 .0041 .0042 .0043 .0044 .0044 .0044 .0044 .0044			0,0	7.17609	2895,3	0.00000	0,0	0 05 09.40
.0018 .0018 .0019 .0019  0.0020 .0020 .0021 .0021 .0022 .0023 .0024 .0024  0.0025 .0026 .0027 .0028 .0029 .0029  0.0030 .0030 .0031 .0032 .0032 .0033 .0034 .0034  0.0035 .0036 .0037 .0036 .0037 .0038 .0039 .0039  0.0040 .0040 .0041 .0042 .0042 .0042 .0043 .0044  0.0045 .0046 .0046		•00000	ļ	.20412	2714,3	.00000		0 05 30.02
0.0019 0.0020 0.0020 0.0021 0.0021 0.0023 0.0023 0.0024 0.0025 0.0026 0.0027 0.0028 0.0029 0.0030 0.0031 0.0031 0.0032 0.0031 0.0032 0.0034 0.0035 0.0036 0.0040 0.0040 0.0040 0.0041 0.0042 0.0043 0.0044		.00000	İ	.23045	2554,7	.00000		0 05 50.65
0.0020		.00000		.25527	2412,7 2285,8	.00000		0 06 11.28
.0021 .00216 .00222 .00233 .00244 .00244 .00245 .00265 .0026 .00265 .0027 .0028 .0029 .00290 .0030 .00306 .0031 .00316 .0032 .00334 .0034 .00346 .0036 .00366 .0037 .00386 .0037 .00386 .0039 .00390 .0040 .00410 .0041 .00426 .0042 .00426 .0043 .00446 .00446 .00446	,190			.2/0/5	2205,0			0 00 31.90
.0022 .0023 .0023 .0023 .0024 .0024 .0024 .0026 .0026 .0026 .0027 .0028 .0029 .0029 .0030 .0031 .0031 .0034 .0034 .0034 .0035 .0036 .0036 .0036 .0036 .0036 .0037 .0038 .0039 .0039 .0039 .0039 .0040 .0040 .0041 .0041 .0042 .0043 .0044 .0044 .0044 .0044			0,0	7.30103	2171,5	0.00000	0,0	0 06 52.53
.0023 .00236 .0024 .00246 .0026 .0026 .0027 .0027 .0028 .0029 .0029 .00296 .0031 .0031 .0032 .0033 .0034 .00346 .0035 .0036 .0036 .0037 .0037 .0038 .0038 .0039 .00396 .0040 .00416 .0041 .0042 .0043 .00446 .0044 .00446	210	.00000	}	.32222	2068,1	.00000		0 07 13.16
0.0024		.00000	ļ	.34242	1974,1 1888,2	.00000		0 07 33.78
0.0025 .0026 .0026 .0027 .0028 .0029 .0029 .0029 .0030 .0031 .0032 .0033 .0034 .0034 .0036 .0036 .0036 .0036 .0037 .0038 .0039 .0040 .0041 .0042 .0043 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044 .0044		.00000		.36173	1888,2	.00000		0 07 54.41
.0026 .0026 .0027 .0028 .0029 .0029 .0029 .0030 .0031 .0031 .0032 .0033 .0034 .0034 .0035 .0036 .0036 .0036 .0037 .0038 .0039 .0039 .0039 .0039 .0040 .0041 .0041 .0042 .0043 .0044 .0044 .0044 .0044	0240	.00000		.38021	1809,6	.00000		0 08 15.04
.0027 .00276 .00286 .0029 .00296 .00290 .00301 .00316 .00326 .00346 .00346 .00356 .00356 .00356 .00366 .00376 .0038 .00390 .00400 .00410 .00411 .0042 .00431 .00444 .00444 .00444 .00445 .00446 .00445 .00446 .00456 .00466	250 10,0	0,00000	0,0	7.39794	1737,2	0.00000	0,0	0 08 35.66
0.0028 0.0029 0.0030 0.0031 0.0032 0.0032 0.0033 0.0034 0.0035 0.0036 0.0036 0.0037 0.0038 0.0039 0.0040 0.0040 0.0040 0.0040 0.0040 0.0041 0.0042 0.0043 0.0043 0.0045 0.0045 0.0046	0260	.00000	Ì	.41497	1670,4	.00000		0 08 56.29
0.0029		.00000		.43136	1608,5	.00000		0 09 16.91
0.0030		.00000		.44716	1551,0	.00000		0 09 37.54
.0031 .00314 .0032 .00333 .0034 .00344 0.0035 .0036 .0036 .0036 .0037 .0038 .0038 .0038 .0039 .0039 0.0040 .00400 .0041 .0042 .0043 .0042 .0043 .00444	0290	.00000		.46240	1497,6	.00000		0 09 58.17
.0032 .0032 .0033 .0034 .0034 .0034 .0035 .0036 .0036 .0036 .0037 .0038 .0039 .0039 .0040 .0040 .0041 .0042 .0043 .0042 .0043 .0044 .0044 .0044 .0045 .0046	300 10,0	0,00000	0,0	7.47712	1447,6	0.00000	0,0	0 10 18.79
0.0033 .00334 0.0034 .00344 0.0035 .0036 .0037 .0037 .0038 .0039 0.0040 .00404 .0041 .0044 .0042 .0043 .0044 .00444 0.0045 .0046	310	.00000		.49136	1400,9	.00000		0 10 39.42
0.0034 .00344 0.0035 0.00356 .0036 .0036 .0037 .0038 .0039 .00396 0.0040 0.00406 .0041 .0044 .0042 .0043 .0044 .00444 0.0045 0.0045 .0046 .0046	320	0.99999		.50515	1357,2	.00000		0 11 00.05
0.0035 .0036 .0037 .0038 .0039 .0039 .0040 .0041 .0042 .0043 .0044 .0044 .0044 .0045 .0046		59999	İ	.51851	1316,0	.00000		0 11 20.67
0.0040 0.0040 0.0041 0.0042 0.0043 0.0045 0.0045 0.0045	0340	•99999		.53148	1277,3	.00000		0 11 41.30
.0037 .0038 .0039 .0039 .0039 .0040 .0041 .0042 .0043 .0044 .0044 .0044 .0045 .0046	350 10,0	0.99999	0,0	7.54407	1240,8	0.00000	0,0	0 12 01.03
0.0040 0.0040 0.0041 0.0042 0.0043 0.0044 0.0045 0.0045	360	. 999999		.55630	1205,4	.00000		0 12 22.55
0.0040 0.0040 0.0041 0042 0043 0044 0.0045 0.0045		• 99999		.56820	1173,8	.00000	4 44 ,4 1	0 12 43.18
0.0040 .0041 .0042 .0043 .0044 0.0045 .0046		99999		.57978	1142,9	.00000		0 13 03.81
.0041 .00416 .0042 .0043 .0043 .00446 0.0045 0.0045 .0046 .0046	0390	.99999		.59106	1113,6	.00000		0 13 24.43
.0041 .00416 .0042 .0043 .0043 .00446 0.0045 0.0045 .0046 .0046	10,0	0.99999	0,0	7.60206	1085,7	0.00000	0,0	0 13 45.06
.0043 .0043 .0044 .00446 0.0045 0.0045 .0046 .0046	0410	.99999	,	.61278	1059,2	.00000	-	0 14 05.69
0.0044 0.00446 0.0045 0.00456 0.0046	1420	• • • • • • • • • • • • • • • • • • • •		.62325	1034,0	.00000		0 14 26.31
0.0045 .0046		-99999		.63347	1010,0	.00000		o 14 46.94
.0046 .0046	0440	•99999		.64345	987,0	.00000		0 15 07.57
.0046 .0046	10,0	0.99999	0,0	7.65321	965,1	0.00000	0,0	0 15 28.19
		99999	1	.66276	944,1	.00000		0 15 48.82
			J	67210	924,0	00000	,	0 16 09.44
.0048 .0048	0480	99999		.68124	904,8	00000		0 16 30.07
.0049 .0049	0490	99999		.69019	886,3	9.99999		0 16 50.70
0.0050	0500 10,0	0.99999	0,0	7.69897	868,6	9.99999	0,0	0 17 11.32
u –i sinh i	nhiu ω F <sub>0</sub> ′	F <sub>0</sub> ' cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> /	log cos u	ω F <sub>0</sub> ′	u
0.0050	0.00500	10,0	0.99999	0,0 0,1	7.69897	868,6 851,6	9.99999	0,0	0 17 11.32 0 17 31.95
.0052 .0053 .0054	.00520 .00530 .00540		•99999 •99999 •99999		.71600 .72427 .73239	835,2 819,4 804,2	.99999 .99999 .99999		0 17 52.58 0 18 13.20 0 18 33.83
0.0055 .0056 .0057	0.00550 .00560 .00570 .00580	10,0	0.99998 .99998 .99998	0,1	7.74036 .74819 .75587 .76343	789,6 775,5 761,9 748,8	9.99999 .99999 .99999	0,0	0 18 54.46 0 19 15.08 0 19 35.71 0 19 56.34
.0058 .0059	.00590	10,0	.99998	0,1	7.77815	736,1	99999	0,0	0 20 16 96
.0061 .0062 .0063 .0064	.00610 .00620 .00630 .00640	10,0	.99998 .99998 .99998 .99998	0,1	.78533 .79239 .79934 .80618	711,9 700,5 689,3 678,6	.99999 .99999 .99999		0 20 58.22 0 21 18.84 0 21 39.47 0 22 00.09
0.0065 .0066 .0067 .0068 .0069	0.00650 .00660 .00670 .00680	10,0	0.99998 .99998 .99998 .99998	0,1	7.81291 .81954 .82607 .83251 .83885	668,1 658,0 648,2 638,7 629,4	9.99999 .99999 .99999 .99999	0,0	0 22 20.72 0 22 41.35 0 23 01.97 0 23 22.60 0 23 43.23
0.0070 .0071 .0072 .0073 .0074	0.00700 .00710 .00720 .00730	10,0	0.99998 .99997 .99997 .99997	0,1	7.84509 -,85125 .85733 .86332 .86923	620,4 611,7 603,2 594,9 586,9	9.99999 .99999 .99999 .99999	0,0	0 24 03.85 0 24 24.48 0 24 45.11 0 25 05.73 0 25 26.36
0.0075 .0076 .0077 .0078	0.00750 .00760 .00770 .00780	10,0	0.99997 .99997 .99997	0,1	7.87506 .88081 .88649 .89209 .89762	579,0 571,4 564,0 556,8	9.99999 .99999 .99999	0,0	0 25 46.99 0 26 07.61 0 26 28.24 0 26 48.87 0 27 09.49
0.0079 0.0080 .0081 .0082	0.00790 0.00800 .00810 .00820	10,0	.99997 0.99997 .99997 .99997	0,1	7.90309 .90848 .91381	549.7 542,9 536,2 529,6 523,2	9.99999 9.99999 99999 99999	0,0	0 27 30.12 0 27 50.74 0 28 11.37 0 28 32.00
.0083	.00830		.99997	. e.gr - e.gr - e.gr - e.gr - e.gr	.92427	517,0	9,9998	0,0	0 28 52.62
0.0085 .0086 .0087 .0088 .0089	0.00850 .00860 .00870 .00880	10,0	0.99996 .99996 .99996 .99996	O,I	7.92941 .93449 .93951 .94448 .94938	505,0 499,1 493,5 488,0	.99998 .99998 .99998		0 29 33.88 0 29 54.50 0 30 15.13 0 30 35.76
0.0090 .0091 .0092 .0093 .0094	0.00900 .00910 .00920 .00930	10,0	0.99996 .99996 .99996 .99996	0,1	7.95424 .95904 .96378 .96848 .97312	482,5 477,2 472,0 467,0 462,0	9.99998 .99998 .99998 .99998	0,0	0 30 56.38 0 31 17.01 0 31 37.64 0 31 58.26 0 32 18.89
0.0095 .0096 .0097 .0098	0.00950 .00960 .00970 .00980	10,0	0.99995 .99995 .99995 .99995	0,1	7.97772 .98226 .98676 .99122 .99563	457,1 452,4 447,7 443,1 438,7	9.99998 .99998 .99998 .99998	0,0	0 32 39.52 0 33 00.14 0 33 20.77 0 33 41.40 0 34 02.02
0.0100	0.01000	10,0	<b>0.</b> 99995	0,1	7.99999	434.3	9.99998	0,0	0 34 22.65
u	-i sinh lu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark> i	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	COS II	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> /	log cos u	ω F <sub>0</sub> ′	u
0.0100 .0101 .0102 .0103 .0104	0.01000 .01010 .01020 .01030 .01040	10,0	0.99995 .99995 .99995 .99995	0,1	7.99999 8.00431 .00859 .01283 .01703	434,3 430,0 425,8 421,6 417,6	9.99998 .99998 .99998 .99998	0,0	0 34 22.65 0 34 43.27 0 35 03.90 0 35 24.53 0 35 45.15
0.0105 .0106 .0107 .0108 .0109	0.01050 .01060 .01070 .01080	10,0	0.99994 .99994 .99994 .99994	0,1	8.02118 .02530 .02938 .03342 .03742	413,6 409,7 405,9 402,1 398,4	9.99998 .99998 .99998 .99997 .99997	0,0	0 36 05.78 0 36 26.41 5 36 47.03 0 37 07.66 0 37 28.29
0.0110 .0111 .0112 .0113 .0114	0.01100 .01110 .01120 .01130 .01140	10,0	0.99994 .99994 .99994 .99994	0,1	8.04138 .04531 .04921 .05307 .05690	394,8 391,2 387,7 384,3 380,9	9.99997 .99997 .99997 .99997	0,0	0 37 48.91 0 38 09.54 0 38 30.17 0 38 50.79 0 39 11.42
0.0115 .0116 .0117 .0118 .0119	0.01150 .01160 .01170 .01180 .01190	10,0	0.99993 .99993 .99993 .99993	0,1	8.06069 .06445 .06818 .07187 .07554	377,6 374,4 371,2 368,0 364,9	9.99997 .99997 .99997 .99997 .99997	0,0 0,1	0 39 32.05 0 39 52.67 0 40 13.30 0 40 33.92 0 40 54.55
0.0120 .0121 .0122 .0123 .0124	0.01200 .01210 .01220 .01230 .01240	10,0	0.99993 .99993 .99992 .99992	0,1	8.07917 .08277 .08635 .08989 .09341	361,9 358,9 356,0 353,1 350,2	9.99997 .99997 .99997 .99997 .99997	0,1	0 41 15.18 0 41 35.80 0 41 56.43 0 42 17.05 0 42 37.68
0.0125 .0126 .0127 .0128 .0129	0.01250 .01260 .01270 .01280 .01290	10,0	0.99992 .99992 .99992 .99992	O,I	8.09690 .10036 .10379 .10720 .11058	347,4 344,7 342,0 339,3 336,6	9.99997 .99997 .99996 .99996 .99996	0,1	0 42 58.31 0 43 18.94 0 43 39.56 0 44 00.19 0 44 20.82
0.0130 .0131 .0132 .0133 .0134	0.01300 .01310 .01320 .01330 .01340	10,0	0.99992 .99991 .99991 .99991	0,1	8.11393 .11726 .12056 .12384 .12709	334,1 331,5 329,0 326,5 324,1	9.99996 .99996 .99996 .99996	0,1	0 44 41.44 0 45 02.07 0 45 22.70 0 45 43.32 0 46 03.95
0.0135 .0136 .0137 .0138 .0139	0.01350 .01360 .01370 .01380 .01390	<b>IO,0</b>	0.99991 .99991 .99990 .99990	0,1	8.13032 .13353 .13671 .13987 .14300	321,7 319,3 317,0 314,7 312,4	9.99996 .99996 .99996 .99996	0,1	0 46 24.57 0 46 45.20 0 47 05.83 0 47 26.45 0 47 47.08
0.0140 .0141 .0142 .0143 .0144	0.01400 .01410 .01420 .01430 .01440	10,0	0.99990 .99990 .99990 .99990	0,1	8.14611 .14920 .15227 .15532 .15835	310,2 308,0 305,8 303,7 301,6	9.99996 .99996 .99996 .99995	0,1	0 48 07.71 0 48 28.33 0 48 48.96 0 49 09.59 0 49 30.21
0.0145 .0146 .0147 .0148 .0149	0.01450 .01460 .01470 .01480 .01490	10,0	0.99989 .99989 .99989 .99989	0,1	8.16135 .16434 .16730 .17025 .17317	299,5 297,4 295,4 293,4 291,5	9.99995 .99995 .99995 .99995 .99995	0,1	e 49 50.84 0 50 11.47 0 50 32.09 0 50 52.72 0 51 13.35
0.0150	0.01500	10,0	0.99989	0,1	8.17608	289,5	9.99995	0,1	0 51 33.97
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F₀′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u La marine si anno in sist

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
.0150	0.01500	10,0	0.99989	0,1	8.17608	289,5	9.99995	0,1	o°51′33.97
.0151	.01510	10,0	.99989	0,2	17896	287,6	99995		0 51 54.60
.0152	.01520		.99988	٠,2	18183	285,7	99995	prost	0 52 15.23
.0153	.01530		.99988	i,	18467	283,8	99995	1	0 52 35.85
.0154	.01540		.99988		. 18750	282,0	99995	10.77	0 52 56.48
.0155	0.01550	10,0	0.99988	0,2	8.19031	280,2	9.99995	0,1	0 53 17.10
.0156	.01560		.99988		.19311	278,4	•99995		0 53 37.73
.0157	.01570		.99988		19588	276,6	.99995		o 53 58.36 o 54 18.98
.0158	.01580		.99988 .99987		.19864	274,9 273,1	•99995 •99995		o 54 39.61
.0160	0.01600	10,0	0.99987	0,2	8.20410	271,4	9.99994	1,0	0 55 00.24
.0161	.01610		.99987		.20681	269,7	99994		0 55 20.86
.0162	.01620		99987		.20950	268,1	99994	. 1 (20 ± 1 . 4(2) <del>(3</del> )	0 55 41.49
.0163	.01630		.99987		.21217	266,4	•99994		0 56 02.12
.0164	.01640		99987		.21482	264,8	•99994	A - Copy Copy	0 56 22.74
.0165	0.01650	10,0	0.99986	0,2	8.21746	263,2	9.99994	0,1	0 56 43.37
.0166	.01660		.99986		.22009	261,6 260,0	99994	6627	0 57 04.00 0 57 24.62
.0167	.01670	ange en n	.99986 .99986		.22529	258,5	99994		0 57 45.25
.0169	.01690		.99986		.22787	257,0	.99994	wa V	0 58 05.88
.0170	0.01700	10,0	0.99986	0,2	8.23043	255,4	9.99994	0,1	o 58 26.50
.0171	.01710		.99985		.23298	253,9	•99994	er jaget is	0 58 47.13
.0172	.01720		.99985		.23551	252,5	•99994		0 59 07.75
.0173	.01730	1 1 1 1	.99985		.23802	251,0	•99994		0 59 28.38
.0174	.01740		.99985		.24053	249,6	.99993		o 59 49.01
.0175	0.01750	10,0	0.99985	0,2	8.24302	248,1	9.99993	0,1	1 00 09.63
.0176	.01760		.99985		.24549	246,7	.99993	miser ett. T	I 00 30.26 I 00 50.89
.0177	.01770		.99984		.24795	245,3	·99993		1 00 50.69
.0178	.01790		.99984	len eest optidier oo	.25040	244,0 242,6	.99993	J. WE	I OI 32.14
.0180	0.01800	10,0	0.99984	0,2	8.25525	241,2	9.99993	0,1	1 01 52.77
.0181	.01810		.99984	Strategies	.25766	239,9	.99993		1 02 13.39
.0182	.01820	1974 1975 1	.99983	[3] Rang	26005	238,6	.99993		I 02 34.02
.0183	.01830	,	.99983		.26243	237,3		- :	1 02 54.65
.0184	.01840		.99983	100	26479	236,0	99993		1 03 15.27
0.0185	0.01850	10,0	0.99983	0,2	8.26715 .26949	234,7	9.99993	0,1	I 03 35.90 I 03 56.53
.0186	.01860	es transfer i	.99983	1	.20949	233,5 232,2	.99992	4.5	1 03 50.53
.0188	.01880		.99982	ŀ	.27413	231,0	.99992		I 04 37.78
.0189	.01890		.99982		.27644	229,8	.99992		1 04 58.40
.0190	0.01900	10,0	0.99982	0,2	8.27873	228,5	9.99992	0,1	1 05 19.0
.0191	.01910		.99982		.28101	227,4	.99992	1	1 05 39.66
.0192	.01920		.99982		.28327	226,2	.99992	100	1 06 00.28
.0193	.01930		.99981		.28553	225,0 223,8	.99992		1 06 20.91 1 06 41.54
		10,0	0.99981	0,2	8.20001	222,7	9.99992	0,1	1 07 02.16
.0195	0.01950	10,0	.99981	0,2	.29223	221,6	9.99992	,	I 07 22.79
.0190	.01970	St. Spring	.99981		29444	220,4	.99992	35	I 07 43.4
.0198	.01980	1	99980		29664	219,3	.99991		1 08 04.04
.0199	.01990		.99980		.29882	218,2	100001		1 08 24.67
0.0200	0.02000	10,0	0.99980	0,2	8.30100	217,1	9.99991	0,1	1 08 45.30
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F₀′	log sin u	ω F <sub>0</sub> ′	log cos u	ω <b>F</b> <sub>0</sub> ′	u
0.0200	0.02000	10,0	0.99980	0,2	8.30100	217,1	9.99991	O, I	1°08′45′
.0201	.02010		99980		.30317	216,0	.99991	-,-	1 09 05
.0202	.02020		.99980		.30532	215,0	.99991		1 09 26
.0203	.02030	1	-99979	}	.30747	213,9	.99991		I 09 47
.0204	.02040		•99979	ŀ	.30960	212,9	.99991		I 10 07
0.0205	0.02050	10,0	0.99979	0,2	8.31172	211,8	9.99991	0,1	1 10 28
.0206	.02060		99979		.31384	210,8	.99991		I 10 49
.0207	.02070		.99979 .99978		.31594	209,8 208,8	.99991	, i	I II 09
.0209	.02090		99978		.32012	207,8	.99991		1 11 50
0.0210	0.02100	10.0	0.99978	0,2	8.32219	206,8	9.99990	0,1	1 12 11.
.0211	.02110	-,-	.99978	la di	.32425	205,8	99990		I 12 32.
.0212	.02120		.99978		.32630	204,8	.99990		I 12 52.
.0213	.02130		99977		.32835	203,9	.99990		I 13 13
.0214	.02140		•99977		.33038	202,9	.99990		I 13 34
0.0215	0.02150	10,0	0.99977	0,2	8.33241	202,0	9.99990	0,1	I 13 54
.0216	.02160		•99977 •99976		•33442 •33643	201,0 200,1	.99990		I 14 15
.0217	.021/0		.99976		.33842	199,2	.99990		I 14 56
.0219	.02190		.99976		.34041	198,3	.99990		1 15 17
0.0220	0.02200	10,0	0.99976	0,2	8.34239	197,4	9.99989	O, I	I 15 37
.0221	.02210		.99976		.34436	196,5	.99989		I 15 58
.0222	.02220		•99975		.34632	195,6	.99989		1 16 19
.0223	.02230		·99975 ·99975		.34827	194,7 193,8	.99989		I 16 39
•				5			_		-
.0225	.02250	10,0	0.99975	0,2	8.35215	193,0	9.99989	0,1	1 17 20 1 17 41
.0220	.02270		•99974 •99974		.35407 .35599	192,1	.99989		I 17 41 I 18 02
.0228	.02280		•99974		35790	190,4	.99989		I 18 22
.0229	.02290		•99974		.35980	189,6	99989		1 18 43
0.0230	0.02300	10,0	0.99974	0,2	8.36169	188,8	9.99989	0,1	1 19 04
.0231	.02310		•99973		36357	188,0	.99988		I 19 24
.0232	.02320		•99973 •99973		.36545 .36732	187,2 186,4	.99988		I 19 45
.0234	.02340		·99973		36918	185,6	.99988		I 20 26
0.0235	0.02350	10,0	0.99972	0,2	8.37103	184,8	9.99988	0,1	1 20 47
.0236	.02360	,-	.99972	-,-	.37287	184,0	99988	•	I 2I 07
.0237	.02370	r'	.99972	-	·37471	183,2	.99988		1 21 28.
.0238	.02380		.99972		37654	182,4 181,7	.99988		I 2I 49. I 22 09.
.0239	.02390		.99971		.37836				
0.0240	0.02400	10,0	0.99971	0,2	8.38017	180,9	9.99987	0,1	I 22 30
.0241	.02410		.99971		.38198	180,2 179,4	99987		I 22 50 I 23 II
0242	.02420		.99971 .99970		38556	178,7	.99987		I 23 32
.0244	.02440		.99970		.38735	178,0	.99987		I 23 52
0.0245	0.02450	10,0	0.99970	0,2	8.38912	177,2	9.99987	0,1	1 24 13.
.0246	.02460		.99970		39089	176,5	.99987		I 24 34
.0247	.02470		.99969 .99969		.39265	175,8	.99987		I 24 54. I 25 15.
.0248	.02480		.99969		.39441 .39615	175,1 174,4	.99987		I 25 35
0.0250	0.02500	10,0	0.99969	0,2	8.39789	173,7	9.99986	0,1	1 25 56.
u	-i sinh iu	ω Fo'	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ωF <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0250	0.02500	10,0	0.99969	0,2	8.39789	173,7	9.99986	0,1	1 25 56.62
.0251	.02510		.99969	0,3	.39963	173,0	.99986		1 26 17.25
.0252	.02520		.99968		.40135	172,3	.99986		1 26 37.87
.0253	.02530		.99968		.40307	171,6	.99986		1 26 58.50
.0254	.02540		.99968	3	.40479	170,9	.99986		1 27 19.13
0.0255	0.02550	10,0	0.99967	0,3	8.40649	170,3	9.99986	0, 1	1 27 39.75
.0256	.02560	1.20	.99967		.40819	169,6	.99986	er was	1 28 00.38
.0257	.02570	1	99967		.40989	168,9	.99986		1 28 21.01
.0258	.02580		.99967		.41157	168,3 167,6	.99986		1 28 41.63 1 29 02.26
0.0260	0.02600	10,0	0.99966	0,3	8.41492	167,0	9.99985	0,1	1 29 22.88
.0261	.02610	10,0	99966	0,3	.41659	166.4	.99985	· · · · · · · · · · · · · · · · · · ·	1 29 43.51
.0262	.02620		.99966		.41825	165,7	.99985		I 30 04.14
.0263	.02630		.99965	j	.41991	165,1	.99985		1 30 24.76
.0264	.02640		.99965	:	.42155	164,5	.99985		I 30 45.39
0.0265	0.02650	10,0	0.99965	0,3	8,42320	163,8	9.99985	0,1	1 31 06.02
.0266	.02660		.99965		.42483	163,2	.99985	artistic construction	1 31 26.64
0267	.02670		.99964		.42646	162,6 162,0	.99985		I 3I 47.27
.0269	.02690	with a second	.99964 .99964		42970	161,4	.99984		I 32 07.90 I 32 28.52
0.0270	0.02700	10,0	0.99964	0,3	8.43131	160,8	9.99984	A +	
.0271	.02710	10,0	99963	0,3	.43292	160,2	.99984	o, I	I 32 49.15 I 33 09.78
.0272	.02720	15755989	99963	in se	.43452	159,6	.99984		1 33 30.40
.0273	.02730	1938.1	.99963	ļ. ·	.43611	159,0	99984		1 33 51.03
.0274	.02740		.99962		43770	158,5	.99984		1 34 11.66
0.0275	0.02750	10,0	0.99962	0,3	8.43928	157,9	9.99984	0,1	1 34 32.28
.0276	.02760	45.14.1	.99962		.44085	157,3	.99983		1 34 52.91
.0277	.02770		.99962		.44242	156,7	.99983		1 35 13.54
.0278	.02780		.99961		•44399	156,2	.99983		1 35 34.16
.0279	.02790		.99961		44555	155,6	.99983		I 35 54-79
0.0280	0.02800	10,0	0.99961	0,3	8.44710	155,1	9.99983	0, I	1 36 15.41
.0282	.02820		.99961		.44865	154,5 154,0	.99983		1 36 36.04 1 36 56.67
.0283	.02830		99960		45173	153,4	.99983		1 37 17.29
.0284	.02840	ny Many d	.99960		.45326	152,9	.99982		I 37 37.92
0.0285	0.02850	10,0	0.99959	0,3	8.45479	152,3	9.99982	O, I	1 37 58.55
.0286	,02860		99959		45631	151,8	.99982	-,-	1 38 19.17
.0287	.02870	100	99959		.45782	151,3	.99982		1 38 39.80
.0288	.02880	100	99959		•45933	150,8	.99982		I 39 00.43
.0289	.02890		.99958		.46084	150,2	.99982		1 39 21.05
0.0290	0.02900	10,0	0.99958	0,3	8.46234	149,7	9.99982	0,1	1 39 41.68
.0291	.02910		.99958	- B.	.46383	149,2	.99982		1 40 02.31
.0292	.02920		•99957	AQ.	.46532	148,7	.99981		I 40 22.93
.0293	.02930		•99957	125	.46681 .46828	148,2	.99981		I 40 43.56
0294			99957	1.48.		147,7			1 41 04.19
0.0295 .0296	0.02950	10,0	0.99956	0,3	8.46976	147,2	9.99981	0,1	1 41 24.81 1 41 45.44
.0295	.02900		.99956 .99956		.47123 .47269	146,7 146,2	.99981	Se to para consequen	1 41 45.44 1 42 06.06
.0298	.02980		.99956		.47415	145,7	.99981	2015 AND	1 42 26.69
.0299	.02990		99955		.47561	145,2	.99981	September 1	1 42 47.32
0.0300	0.03000	10,0	0.99955	0,3	8.47706	144,7	9.99980	0,1	1 43 07.94
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> ′	

. 0301   0.93010   0.99055   0.99054   0.47850   1.44,2   0.99080   1.43   28.55   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9305   0.9305   0.0305   0.9305   0.99053   0.48505   1.44,2   0.99080   0.1   0.9305   0.9307   0.9307   0.99053   0.48505   1.44,3   0.99080   0.1   0.9305   0.9307   0.99053   0.99053   0.48505   1.44,4   0.99080   0.1   0.99053   0.99053   0.99080   0.99053   0.99080   0.99053	0.0300 .0301 .0302 .0303 .0304	0.03000 .03010 .03020 .03030		cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0300   0.0300   0.04   0.99955   0.3   8.47766   144.7   9.99986   0.1   1.43   27.9.   0.0301   0.0302   0.99954   0.47994   143.8   0.99986   1.44   0.98   0.0304   0.0304   0.0304   0.99954   0.48881   142.8   0.99986   0.1   1.44   0.98   0.0305   0.0305   0.0305   0.99953   0.48881   142.8   0.99986   0.1   1.44   0.98   0.0305   0.0306   0.99953   0.48956   1.44.9   0.9986   0.1   1.45   1.67   0.0307   0.99053   0.48956   1.44.9   0.9986   0.1   1.45   1.67   0.0307   0.0306   0.99953   0.48989   140.5   0.9989   1.45   1.52   0.0308   0.0306   0.99953   0.48989   140.5   0.99979   1.45   1.52   0.0311   0.03100   0.99952   0.3   0.48989   140.5   0.99979   1.46   1.45   0.0311   0.0310   0.99952   0.38   0.49129   1.40,1   0.99979   1.46   1.45   0.0311   0.03110   0.99951   0.49468   130.2   0.99979   1.47   36.05   0.0314   0.0313   0.99951   0.49547   138.7   0.99970   1.47   36.05   0.0314   0.0315   0.03140   0.00   0.99950   0.0314   0.0315   0.03160   0.99950   0.0316   0.03150   0.99950   0.0316   0.03150   0.99950   0.0318   0.03150   0.99950   0.0318   0.03150   0.99950   0.0320   0.03190   0.0316   0.99949   0.03221   0.03190   0.03190   0.000000000000000000000000000000000	.0301 .0302 .0303 .0304 0.0305 .0306	.03010 .03020 .03030	10,0	1						
. 0301   0.93010   0.99055   0.99054   0.47850   1.44,2   0.99080   1.43   28.55   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9304   0.9305   0.9305   0.0305   0.9305   0.99053   0.48505   1.44,2   0.99080   0.1   0.9305   0.9307   0.9307   0.99053   0.48505   1.44,3   0.99080   0.1   0.9305   0.9307   0.99053   0.99053   0.48505   1.44,4   0.99080   0.1   0.99053   0.99053   0.99080   0.99053   0.99080   0.99053	.0301 .0302 .0303 .0304 0.0305 .0306	.03010 .03020 .03030	,	0.00055	0.3	8.47706	144.7	0.00080	0.1	1 43 07.04
.0302	.0302 .0303 .0304 0.0305 .0306	.03020	,	1	-,0	47850			-,-	I 43 28.57
0.0303	.0303 .0304 0.0305 .0306	.03030			1					
0.0304	.0304 0.0305 .0306				1	48138				
0.036	.0306					.48281				I 44 30.45
0.036	.0306	0.03050	10,0	0.99953	0,3	8.48423	142,3	0.00080	0.1	1 44 51.08
0.037			Í						,	I 45 II.70
0.0308	•0307					48707			1	
0.0309						48848			]	I 45 52.06
.0311						.48989			İ	1 46 13.58
.0311	0.0310	0.03100	10,0	0.99952	0,3	8.49129	140,1	9.99979	0,1	1 46 34.21
0.0312   0.03120   0.09051   0.49048   139.2   0.99070   1 47 15.46   0.01313   0.03139   0.09051   0.49547   138.7   0.99070   1 47 56.75   0.01315   0.03149   0.0 0.99950   0.3   8.49824   137.8   0.99078   0.1   1 48 17.34   0.0316   0.03169   0.99950   0.50090   137.0   0.99078   1 48 58.55   0.0318   0.03179   0.99949   0.50235   136.5   0.99078   1 48 37.97   0.0319   0.03180   0.99949   0.50372   136.1   0.99078   1 49 39.85   0.0320   0.0320   0.0320   0.99049   0.50372   136.1   0.99078   1 49 39.85   0.0320   0.0320   0.0320   0.99048   0.5043   135.2   0.99078   1 49 39.85   0.0323   0.0320   0.99048   0.5043   135.2   0.99078   1 50 21.10   0.0322   0.03210   0.99048   0.5078   134.8   0.99077   1 50 21.10   0.0325   0.03230   0.09048   0.5013   134.4   0.99077   1 50 21.30   0.0325   0.03249   0.09048   0.5013   134.4   0.99077   1 51 02.35   0.0324   0.0325   0.09048   0.51047   134.0   0.99077   1 51 02.35   0.0325   0.03250   0.99047   0.51344   133.2   0.99077   1 51 02.35   0.0325   0.03250   0.99047   0.51344   133.2   0.99077   1 51 02.35   0.0328   0.03290   0.99046   0.51344   133.2   0.99077   1 52 24.86   0.0328   0.03290   0.99046   0.51580   132.4   0.99077   1 52 24.86   0.0329   0.03280   0.99045   0.51580   132.4   0.99077   1 52 24.86   0.0333   0.03390   0.99045   0.51050   130.8   0.99076   1 53 47.37   0.0331   0.0330   0.03300   0.99045   0.5206   130.8   0.99076   1 54 49.24   0.0335   0.03350   0.99043   0.52236   130.4   0.99076   1 54 49.24   0.0335   0.03360   0.99043   0.52236   129.2   0.99075   1 55 0.50 0.0337   0.03360   0.99043   0.52236   129.2   0.99075   1 55 0.50 0.0340   0.0340   0.99041   0.53301   126.0   0.99075   1 55 0.50 0.0340   0.0349   0.09041   0.53301   126.0   0.99074   1 55 0.50 0.0341   0.0340   0.09041   0.53301   126.0   0.99074   1 55 0.50 0.0341   0.03400   0.99042   0.3360   0.0349   0.00440   0.99040   0.3400   0.90040   0.90040   0.50040   0.50040   0.90040   0.50040   0.50040   0.50040   0.0346   0.03450   0.00400   0.90040   0.50040   0.	-		, .		1				-,	
.0313			Cart and the							
0.0314										
.0316/0         .03159/0         .09050/0         .3006/1         137,4         .99078/0         I 48/37.0         .99978/0         I 48/37.0         .99978/0         I 48/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/37.0         .99978/0         I 49/39.85         .99948/0         .50378/0         135,7         9.99978/0         I 50/47/0         .99978/0          I 50/47/0         .99977/0         I 51/42/0         .99977/0         I 51/42/0         .99977/0         I 51/42/0         .99977/0         I 51/42/0         .99977/0         I 52/42/0         .99977/0         I 52/42/0         .99977/0			a in deal day						ļ	1 47 56.71
.0316	0.0315	0.03149	10,0	0.99950	0,3		137,8		0,1	1 48 17.34
.0317	.0316	.03159	·	.99950		.49961		.99978	·	1 48 37.97
.0319	.0317	.03169		.99950		.50099	137,0	.99978		1 48 58.59
0.0320	.0318	.03179		•99949		.50235	136,5	.99978		I 49 I9.22
.0321	.0319	.03189		•99949		.50372	136,1	.99978		1 49 39.85
.0322	0.0320	0.03199	10,0	0.99949	0,3		135,7		0,1	I 50 00.47
.0323	.0321	.03209		.99948		.50643	135,2	.99978		1 50 21.10
.0323	.0322	.03219		.99948		.50778	134,8	99977	1	1 50 41.73
0.0325	.0323	.03229		.99948		.50913		99977		I 5I 02.35
.0326										1 51 22.98
.0327       .03269       .99947       .51447       132,8       .99977       1 52 24.86         .0328       .03279       .99046       .51580       132,4       .99977       1 52 45.46         .00329       .03289       .99946       .51712       132,0       .99976       1 53 66.11         .00330       .03309       .99945       .51975       131,2       .99976       1 53 47.37         .0331       .03329       .99945       .52106       130,8       .99976       1 54 07.90         .0333       .03329       .99945       .52367       130,4       .99976       1 54 07.90         .0334       .03339       .99944       .52367       130,0       .99976       1 54 49.24         .0335       .03349       10,0       0.99944       0,3       8.52496       129,6       9.99976       0,1       1 55 09.87         .0336       .03359       .99943       .52755       128,8       .99975       1 55 11.2         .0338       .03379       .99943       .52755       128,4       .99975       1 55 11.2         .0340       .0340       .99942       .53267       126,1       .99975       1 56 32.38         .0341       .03409 <td>0.0325</td> <td>0.03249</td> <td>10,0</td> <td>0.99947</td> <td>0,3</td> <td>8.51181</td> <td>133,6</td> <td>9.99977</td> <td>0,1</td> <td>1 51 43.61</td>	0.0325	0.03249	10,0	0.99947	0,3	8.51181	133,6	9.99977	0,1	1 51 43.61
.0328	.0326	.03259		•9994 <b>7</b>		.51314	133,2	99977		I 52 04.23
.0329         .03289         .99946         .51712         132,0         .99976         1 53 06.11           0.0330         0.03299         10,0         0.99946         0,3         8.51844         131,6         9.99976         0,1         1 53 26.74           .0331         .03309         .99945         .51975         131,2         .99976         1 54 07.95           .0333         .03329         .99945         .52106         130,8         .99976         1 54 07.95           .0333         .03329         .99945         .52236         130,4         .99976         1 54 28.62           .0334         .03339         .99944         .52367         130,0         .99976         1 54 49.24           .0335         .03349         10,0         0.99944         0,3         8.52496         129,6         9.99975         1 55 30.50           .0337         .03369         .99943         .52755         128,8         .99975         1 55 51.17           .0338         .03379         .99943         .52755         128,1         .99975         1 56 11.75           .0342         .0349         .0349         .99942         .53012         127,7         .99975         1 56 3.00           <	.0327	.03269		-99947		.51447	132,8	99977		1 52 24.86
0.0330         0.03299         10,0         0.99946         0,3         8.51844         131,6         9.99976         0,1         1 53 26.74           0.0331         0.0339         0.99945         51975         131,2         99976         1 53 47.37           0.0333         0.03329         99945         52106         130,8         99976         1 54 28.62           0.0334         0.03339         99944         52236         130,4         99976         1 54 49.24           0.0335         0.03349         10,0         0.99944         0,3         8.52496         129,6         9.99976         0,1         1 55 09.87           0.0336         0.03359         99943         52626         129,2         99975         1 55 30.50           0.0337         0.03369         99943         52755         128,8         99975         1 56 11.75           0.0340         0.03389         99943         53012         128,1         99975         1 56 32.38           0.0340         0.03499         9.9942         53267         127,3         99975         1 57 13.63           0.0341         0.03409         9.9942         53394         126,9         99975         1 57 13.63	.0328	.03279		.99946		.51580	132,4	-99977	.	I 52 45.49
.0331	.0329	.03289		.99946	,	.51712	132,0	.99976		1 53 06.11
.0332	0.0330	0.03299	10,0	<b>0.99</b> 946	0,3	8.51844	131,6	9.99976	0,1	I 53 26.74
.0333					4 / Y /					I 53 47.37
.0334 .03339 .09944 .52367 130,0 .99976 .1 54 49.24  0.0335 0.03349 10,0 0.99944 0,3 8.52496 129,6 9.99976 0,1 1.55 09.87  .0336 .03359 .09943 .52626 129,2 .99975 1.55 30.50  .0337 .03389 .99943 .52883 128,4 .99975 1.56 11.75  .0339 .03389 .99943 .53012 128,1 .99975 1.56 32.38  0.0340 0.03399 10,0 0.99942 0,3 8.53140 127,7 9.99975 1.56 32.38  0.0341 .03409 .99942 .53267 127,3 .99975 1.57 13.63  .0342 .03419 .99942 .53394 126,9 .99975 1.57 13.63  .0343 .03429 .99941 .53521 126,6 .99974 1.57 54.88  .0344 .03439 .99941 .53647 126,2 .99974 1.58 15.51  0.0345 0.03449 10,0 0.99940 0,3 8.53773 125,8 9.99974 0,1 1.58 15.51  0.0346 .03459 .99940 .54024 125,1 .99974 0,2 1.58 56.76  0.0347 .03469 .99940 .54024 125,1 .99974 1.59 17.30  0.0348 .03479 .99939 .54274 124,7 .99974 1.59 38.02  0.0349 .03489 .99939 .54274 124,4 .99974 1.59 38.02	.0332	.03319					130,8		Section 2	I 54 07.99
0.0335         0.03349         10,0         0.99944         0,3         8.52496         129,6         9.99976         0,1         1.55 09.87           0.0336         .03359         .09943         .52626         129,2         .99975         1.55 30.50           .0338         .03379         .99943         .52883         128,4         .99975         1.56 11.75           .0339         .03389         .99943         .53012         128,1         .99975         1.56 32.38           0.0340         .03399         10,0         0.99942         0,3         8.53140         127,7         9.99975         1.57 13.63           .0342         .03419         .99942         .53394         126,9         .99975         1.57 34.26           .0343         .03429         .99941         .53521         126,6         .99974         1.57 54.88           .0344         .03439         .99941         .53647         126,2         .99974         1.58 15.51           0.0345         .03459         .99940         .53899         125,5         .99974         0,2         1.58 56.76           .0347         .03469         .99940         .54024         125,1         .99974         1.59 17.30		.03329		99945				1		
.0336         .03359         .99944         .52626         129,2         .99975         1 55 30.50           .0337         .03369         .99943         .52755         128,8         .99975         1 55 51.12           .0338         .03379         .99943         .52883         128,4         .99975         1 56 11.75           .0339         .03389         .99943         .53012         128,1         .99975         1 56 31.72           .0340         .0349         .99942         .0,3         8.53140         127,7         9.99975         0,1         1 56 53.00           .0342         .03419         .99942         .53367         127,3         .99975         1 57 13.63           .0343         .03429         .99941         .53521         126,6         .99974         1 57 54.88           .0344         .03439         .99941         .53647         126,2         .99974         1 58 15.51           0.0345         0.03449         10,0         0.99940         0,3         8.53773         125,8         9.9974         0,1         1 58 36.14           0.0346         .03459         .99940         .54024         125,1         .99974         1 59 38.02           0.0348	.0334	.03339		•99944		.52367	130,0	.99976		I 54 49.24
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.0339 .03389 .09943 .53012 128,1 .99975 1 56 32.38  0.0340 0.03399 10,0 0.99942 0,3 8.53140 127,7 9.99975 0,1 1 56 53.00  .0341 .03409 .99942 .53394 126,9 .99975 1 57 13.63  .0342 .03419 .99942 .53394 126,9 .99975 1 57 34.26  .0343 .03429 .99941 .53521 126,6 .99974 1 57 54.88  .0344 .03439 .99941 .53647 126,2 .99974 1 58 15.51  0.0345 0.03449 10,0 0.99940 0,3 8.53773 125,8 9.9974 0,1 1 58 36.14  .0346 .03459 .99940 .53899 125,5 .99974 0,2 1 58 56.76  .0347 .03469 .99940 .54024 125,1 .99974 1 59 17.30  .0348 .03479 .99939 .54149 124,7 .99974 1 59 38.02  .0349 .03489 .99939 .54274 124,4 .99974 1 59 38.02			80							
0.0340       0.03399       10,0       0.99942       0,3       8.53140       127,7       9.99975       0,1       1 56 53.00         .0341       .03409       .99942       .53267       127,3       .99975       1 57 13.63         .0342       .03419       .99942       .53394       126,9       .99975       1 57 34.26         .0343       .03429       .99941       .53521       126,6       .99974       1 58 15.51         0.0345       0.03449       10,0       0.99940       0,3       8.53773       125,8       9.99974       0,1       1 58 36.14         .0346       .03459       .99940       .53899       125,5       .99974       0,2       1 58 56.76         .0347       .03469       .99940       .54024       125,1       .99974       1 59 17.36         .0348       .03479       .99939       .54149       124,7       .99974       1 59 38.02         .0349       .03489       .99939       .54274       124,4       .99974       1 59 58.64										1 50 11.75
.0341       .03409       .99942       .53267       127,3       .99975       1 57 13.63         .0342       .03419       .99942       .53394       126,9       .99975       1 57 34.26         .0343       .03429       .99941       .53521       126,6       .99974       1 57 54.88         .0344       .03439       .99941       .53647       126,2       .99974       1 58 15.51         .00345       .03459       .99940       .9940       .53899       125,5       .99974       0,1       1 58 36.14         .0347       .03469       .99940       .54024       125,1       .99974       1 59 17.38         .0348       .03479       .99939       .54149       124,7       .99974       1 59 38.02         .0349       .03489       .99939       .54274       124,4       .99974       1 59 58.64	.0339	.03389	1,55	•99943	3. 3	.53012	128,1	•99975		1 50 32.30
.0342			10,0		0,3				0,1	1 56 53.00
.0343       .03429       .99941       .53521       126,6       .99974       1 57 54.88         .0344       .03439       .99941       .53647       126,2       .99974       1 58 15.51         0.0345       0.03449       10,0       0.99940       0,3       8.53773       125,8       9.99974       0,1       1 58 36.14         .0346       .03459       .99940       .53899       125,5       .99974       0,2       1 58 56.76         .0348       .03479       .99939       .54149       124,7       .99974       1 59 17.36         .0349       .03489       .99939       .54274       124,4       .99974       1 59 58.64							12/,3			
.0344       .03439       .99941       .53647       126,2       .99974       1 58 15.51         0.0345       0.03449       10,0       0.99940       0,3       8.53773       125,8       9.99974       0,1       1 58 36.14         0.0346       0.03459       .99940       .53899       125,5       .99974       0,2       1 58 56.76         0.0347       .03469       .99939       .54024       125,1       .99974       1 59 17.39         0.0348       .03479       .99939       .54149       124,7       .99974       1 59 38.02         0.0349       .03489       .99939       .54274       124,4       .99974       1 59 58.64									1	T 57 54.20
0.0345       0.03449       10,0       0.99940       0,3       8.53773       125,8       9.99974       0,1       1 58 36.14         0.0346       0.03459       0.99940       0.54024       125,5       0.9974       0,2       1 58 56.76         0.0347       0.03489       0.99939       0.54149       124,7       0.99974       1 59 17.39         0.0349       0.03489       0.99939       0.54274       124,4       0.99974       1 59 58.64										
.0346     .03459     .09940     .53899     125,5     .99974     0,2     1 58 56.76       .0347     .03469     .99940     .54024     125,1     .99974     1 59 17.36       .0348     .03479     .99939     .54149     124,7     .99974     1 59 38.02       .0349     .03489     .99939     .54274     124,4     .99974     1 59 58.64	.0344	.03439		•99941		.53047	120,2	1999/4		
.0347 .03469 .09940 .54024 125,1 .99974 1 59 17.39 .0348 .03479 .99939 .54149 124,7 .99974 1 59 38.02 .0349 .03489 .99939 .54274 124,4 .99974 1 59 58.64			10,0		0,3					
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.0349 .03489 .99939 .54274 124,4 .99974 1 59 58.64									. }	
0.0350 0.03400 10,0 0.09030 0,3 8.54398 124,0 9.99973 0,2 2 00 19.27										1 59 58.64
	0.0350	0.03499	10,0	0.99939	0,3	8.54398	124,0	9.99973	0,2	2 00 19.27

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u	sin u	ω F₀′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
								a 58672	0 / 4
0.0350	0.03499	10,0	0.99939	0,3	8.54398	124,0	9.99973	0,2	2 00 19.27
.0351	.03509		.99938	0,4	.54522	123,7	-99973		2 00 39.89
.0352	.03519		.99938	100	. 54645	123,3	•99973		2 01 00.52
.0353	.03529	· .	.99938	1992	54768	123,0	99973		2 01 21.15
				1914	.54891	122,6	99973		2 01 41.77
.0354	.03539	.r 95 5	•99937		. 54091	122,0	•99973	4,54	2 01 41.//
0.0355	0.03549	10,0	0.99937	0,4	8.55014	122,3	9.99973	0,2	2 02 02.40
.0356	.03559		•99937		55136	121,9	.99972		2 02 23.03
.0357	.03569	a 1 100 0	.99936	200	.55258	121,6	.99972		2 02 43.65
.0358	.03579		.99936		•55379	121,3	.99972	S	2 03 04.28
.0359	.03589	1 × 1	.99936		.55500	120,9	.99972		2 03 24.91
0.0360	0.03599	10,0	0.99935	0,4	8.55621	120,6	9.99972	0,2	2 03 45.53
.0361	.03600		99935	'	.55741	120,3	.99972	l	2 04 06.16
.0362	.03619		99934		55861	119,9	.99972		2 04 26.79
.0363	.03629			1 N	.55981	119,6	.99971	1	2 04 47.41
.0364	.03639		•99934		.56101	119,3	.99971		2 05 08.04
.0304	.03039		•99934	2.00	.50101		1999/1	2 E SE	
0.0365	0.03649	10,0	0.99933	0,4	8.56220	118,9	9.99971	0,2	2 05 28.67
.0366	.03659	1.30	•99933		.56338	118,6	.99971		2 05 49.29
.0367	.03669		•99933		.56457	118,3	.99971		2 06 09.92
.0368	.03679		.99932		.56575	118,0	.99971		2 06 30.54
.0369	.03689		.99932		.56693	117,6	.99970		2 06 51.17
0.0370	0.03699	10,0	0.99932	0,4	8.56810	117,3	9.99970	0,2	2 07 11.80
.0371	.03709	1.777	.99931	7.5	56927	117,0	.99970	,	2 07 32.42
.0372	.03719	124 3.5	.99931	1 1	57044	116,7	99970	1 2 4	2 07 53.05
		100		No.		116,4		and the same	2 08 13.68
.0373	.03729	Paralle 1	.99930	100	.57161	116,4	.99970	ay a saaraf	2 08 13.00
.0374	.03739		.99930		.57277	110,1	.99970		
0.0375	0.03749	10,0	0.99930	0,4	8.57393	115,8	9.99969	0,2	2 08 54.93
.0376	.03759		.99929	347 -0	57509	115,4	.99969	1	2 09 15.56
.0377	.03769		.99929	1 1000	57624	115,1	.99969		2 09 36.18
.0378	.03779	3.33	.99929		•57739	114,8	.99969		2 09 56.81
.0379	.03789		.99928		.57854	114,5	.99969		2 10 17.44
0.0380	0.03799	10,0	0.99928	0,4	8.57968	114,2	9.99969	0,2	2 10 38.06
.0381	03809		.99927	-,-	.58082	113,9	99968	7.45	2 10 58.69
0382	.03819	40.00	.99927	100	58195	113,6	.99968		2 11 19.32
0383	03829	100	.99927		58309	113,3	.99968	1.00	2 11 39.94
.0384	.03839		.99926	15. 39	.58422	113,0	.99968	·	2 12 00.57
.0304	.03039		.99920	a - 1 - 10°		113,0	.99900	a jariga	2 12 00.37
0.0385	0.03849	10,0	0.99926	0,4	8.58535	112,7	9.99968	0,2	2 12 21.20
.0386	.03859	100	.99926	1 . 3.5	.58648	112,5	.99968		2 12 41.82
.0387	.03869		.99925		58760	112,2	99967	1	2 13 02.45
.0388	.03879	7 1	.99925		. 58872	111,9	.99967		2 13 23.07
.0389	.03889		.99924	orthodox of	. 58984	111,6	.99967		2 13 43.70
0.0390	0.03899	10,0	0.99924	0,4	8.59095	111,3	9.99967	0,2	2 14 04.33
.0391	.03909	1	.99924		.59207	111,0	.99967	1 1	2 14 24.95
.0392	.03919	S - 5 - 1 - 6	.99923	14 H	.59317	110,7	.99967	1	2 14 45.58
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0393	03929		00022		59428	110,5	.99966	a separation of the second	2 15 26.83
.0394	.03939		.99922		.59538	110,2	.99900	V.	
0.0395	0.03949	10,0	0.99922	0,4	8.59648	109,9	9.99966	0,2	2 15 47 46
.0396	.03959		.99922		59758	109,6	.99966	]	2 16 08.09
.0397	.03969		.99921	Aug. All.	.59868	109,3	.99966	1	2 16 28.71
.0398	.03979		.99921		-59977	109,1	.99966		2 16 49.34
.0399	.03989		.99920		.60086	108,8	99965		2 17 09 97
0.0400	0.03999	10,0	0.99920	0,4	8.60194	108,5	9.99965	0,2	2 17 30.59
	3779			- 7-4	- Bills		3.33503		
u	-i sinh ju	ω <b>F</b> <sub>0</sub> ′	cosh iu	ω Fo'	logsinh iu	ω <b>F</b> <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u
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u	sin u	ω F <sub>0</sub> ′	COS II	ω F <sub>0</sub> ′	log sin u	ω F <sub>o</sub> ′	log cos u	ω F <sub>0</sub> ′	U
					0 60-0	0-			0 / "
0.0400	0.03999	10,0	0.99920	0,4	8.60194 .60303	108,5 108,2	9.99965	0,2	2 17 30.59
.0401	.04009		.99920		.60303	108,0	.99965		2 17 51.22 2 18 11.85
.0403	.04029		.99919		60519	107,7	99965		2 18 32.47
.0404	.04039		.99918		.60626	107,4	.99965		2 18 53.10
0.0405	0.04049	10,0	0.99918	0,4	8.60734	107,2	9.99964	0,2	2 19 13.72
.0406	.04059		.99918		.60841	106,9	.99964		2 19 34.35
.0407	.04069		.99917		.60947	106,6	.99964		2 19 54.98
.0408	.04079		.99917 .99916		.61054 .61160	106,4 106,1	.99964 .99964		2 20 15.60 2 20 36.23
0.0410	0.04099	10,0	0.99916	0,4	8.61266	105,9	9.99963	0,2	2 20 56.86
.0411	.04109	Ť	.99916		.61372	105,6	.99963		2 21 17.48
.0412	.04119		.99915		.61477	105,4	.99963		2 21 38.11
.0413	.04129		.99915		.61583	105,1	.99963		2 21 58.74
.0411	.04139		.99914	,	.61688	104,8	.99963		2 22 19.36
0.0415 .0416	0.04149 .04159	10,0	0.99914	0,4	8.61 <b>792</b> .61897	104,6 104,3	9.99963	0,2	2 22 39.99 2 23 00.62
.0417	.04169		.99913		.62001	104,1	.99962		2 23 21.24
.0418	.04179		99913		.62105	103,8	.99962		2 23 41.87
.0419	.04189		.99912		.62209	103,6	.99962		2 24 02.50
0.0420	0.04199	10,0	0.99912	0,4	8.62312	103,3	9.99962	0,2	2 24 23.12
.0421	.04209		.99911		.62415	103,1	.99962		2 24 43.75
.0422	.04219		.99911	100	.62518	102,9	.99961		2 25 04.37
.0423	.04229		110000		.62621 .62724	102,6 102,4	.99961		2 25 25.00 2 25 45.63
.0424	.04239		.99910	-					
0.0425	0.04249	10,0	0.99910	0,4	8.62826	102,1	9.99961	0,2	2 26 06.25
.0426	.04259		.99909		.62928 .63030	101,9 101,6	.99961 .99960		2 26 26.88
.0427	.04269		.99909	ľ	.63131	101,0	.99960		2 26 47.51 2 27 08.13
.0428	.04279		.99908		.63232	101,2	99960		2 27 28.76
0.0430	0.04299	10,0	0.99908	0,4	8.63333	100,9	9.99960	0,2	2 27 49.39
.0431	.04309		.99907		.63434	100,7	.99960		2 28 10.01
.0432	.04319		.99907		.63535	100,5	•99959		2 28 30.64
.0433	.04329		.99906		.63635	100,2	99959		2 28 51.27
.0434	.04339		.99906		.63735	100,0	-99959		2 29 11.89
0.0435	0.04349	10,0	0.99905	0,4	8.63835	99,8	9.99959	0,2	2 29 32.52
.0436	.04359		.99905		.63935	99,5	99959		2 29 53.15
.0437	.04369		99905		.64034 .64134	99,3 99,1	99959		2 30 13.77 2 30 34.40
.0438	.04379		.99904		.64233	98,9	.99958		2 30 55 02
0.0440	0.04399	10,0	0.99903	0,4	8.64331	98,6	9.99958	0,2	2 31 15.65
.0441	.04409		.99903		.64430	98,4	.99958		2 31 36.28
.0442	.04419		.99902		.64528	98,2	.99958		2 31 56.90
.0443	.04429		.99902		.64625 .64724	98,0 97,7	99957 99957	****	2 32 17.53 2 32 38.16
0.0445	0.04449	10,0	0.99901	0,4	8.64822	97,5	9.99957	0,2	2 32 58.78
.0446	.04459	-5,5	.99901	,,,,	.64919	97.3	99957	_,_,	2 33 19.41
.0447	.04469		.99900		.65016	97,1	99957		2 33 40 04
.0448	.04479		.99900		.65113	96,9	.99956	2.0	2 34 00.66
.0449	.04488		.99899		.65210	96,7	.99956		2 34 21.29
0.0450	0.04498	10,0	0.99899	0,4	8.65307	96,4	9.99956	0,2	2 34 41.92
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω <b>F</b> <sub>0</sub> ′	ú
<u> </u>	<u> </u>		<u>'                                    </u>						

U	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0450	0.04498 .04508	10,0	0.99899	0,4 0,5	8.65307 .65403	96,4 96,2	9.99956 .99956	0,2	2 34 41.92 2 35 02.54
.0452	.04518		.99898	: X	.65499	96,0	.99956		2 35 23.17
.0453	.04528		99897		.65595	95,8	•99955		2 35 43.80
.0454	.04538	144	199897	1.	.65691	95,6	•99955		2 36 04.42
0.0455	0.04548	10,0	0.99897	0,5	8.65786	95,4	9.99955	0,2	2 36 25.05
.0456	.04558		.99896 .99896		.65881 .65976	95,2	99955		2 36 45.68 2 37 06.30
.0457 .0458	.04568		.99895		.66071	95,0 94,8	•99955		2 37 26.93
.0459	.04588		.99895		.66166	94,6	·99954 ·99954		2 37 06.30 2 37 26.93 2 37 47.55
0.0460	0.04598	10,0	0.99894	0,5	8.66260	94,3	9.99954	0,2	2 38 08.18
.0461	04608		99894	,,,	.66355	94,1	.99954		2 38 28.81
.0462	.04618		.99893		.66449	93,9	99954		2 38 49.43
.0463	.04628	•	.99893		.66543	93,7	.99953	77	2 39 10.06
<b>.0</b> 464	.04638		.99892		.66636	93,5	-99953		2 39 30.69
0.0465	0.04648	10,0	0.99892	0,5	8.66730	93.3	9.99953	0,2	2 39 51.31 2 40 11.94
.0466 .0467	.04658		.99891 		.66823 .66916	93,1 92,9	99953		2 40 11.94 2 40 32.57
.0468	.04678		.99891		67009	92,7	.99952		
.0469	.04688	5 S	.99890		.67101	92,5	.99952		2 40 53.19 2 41 13.82
0.0470	0.04698	10,0	0.99890	0,5	8.67194	92,3	9.99952	0,2	2 41 34.45
.0471	.04708		.99889	:	.67286	92,1	.99952		2 41 55.07
.0472	.04718		.99889		.67378	91,9	.99952		2 42 15.70
.0473	.04728		.99888		.67470	91,7	.99951		2 42 36.33 2 42 56.95
.0474	.04738	5	.99888		.67562	91,6	.99951	·	
0.0475	0.04748	10,0	0.99887 .99887	0,5	8.67653 .67744	91,4 91,2	9.99951 99951	0,2	2 43 17.58 2 43 38.20
.0477	.04768		.99886		.67835	91,0	.99951		2 43 58.83
.0478	.04778	,	.99886	1	.67926	90,8	.99950		2 44 19.46
.0479	.04788		.99885		.68017	90,6	.99950		2 44 40.08
0.0480	0.04798	10,0	0.99885	0,5	8.68107	90,4	9.99950	0,2	2 45 00.71
.0481	.04808		99884		.68198 .68288	90,2	.99950		2 45 21.34
.0482	.04818		.99884		.68378	90,0 89,8	.99950		2 45 41.96 2 46 02.59
.0483 .0484	.04828		.99883 .99883		.68468	89,7	99949		2 46 23.22
0.0485	0.04848	10,0	0.99882	0,5	8.68557	89,5	9.99949	0,2	2 46 43.84
.0486	.04858	,-	.99882	-,0	.68647	89,3	.99949		2 47 04.47
.0487	04868	ļ.,	.99881	ŀ	.68736	89,1	.99948		2 47 25.10
.0488	.04878	1	.99881		.68825	88,9	.99948		2 47 45.72
.0489	.04888	- 2 - 1 - 16	.99880		.68914	88,7	.99948		2 48 06.35
0.0490	0.04898	10,0	0.99880	0,5	8.69002	88,6	9.99948	0,2	2 48 26.98
.0491	.04908		.99879		.69091	88,4 88,2	.99948		2 48 47.60 2 49 08.23
.0492	.04918		.99879		60267	88,0	99947		2 49 08.23
.0493 .0494	.04928		.99879		.69355	87,8	99947		2 49 49.48
0.0495	0.04948	10,0	0.99878	0,5	8.69443	87,7	9.99947	0,2	2 50 10.11
.0496	.04958	er in Erica.	.99877	la de	.69530	87,5	99947		2 50 30.73
.0497	.04968		.99877		.69618	87,3	.99946		2 50 51.36
.0498	.04978		.99876		60705	87,1	.99946		2 51 11.99 2 51 32.61
.0499	.04988		.99876	1 10 10 10 10 10 10 10 10 10 10 10 10 10	.69792	87,0	.99946		
0.0500	0.04998	10,0	0.99875	0,5	8.69879	86,8	9.99946	0,2	2 51 53.24
	i alab i		cosh lu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	" E.	log cosh lu	ω F <sub>0</sub> ′	
u	-i sinh iu	ω F <sub>0</sub> ′	บบรก เน	, w 50	1 And 1	w <b>r</b> 0 ···	ion costi in	~ •=0 .∞	u The state of the

					lon	- /			Control of the Contro
u ————	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0500 .0501 .0502 .0503 .0504	0.04998 .05008 .05018 .05028 .05038	10,0	0.99875 .99875 .99874 .99874 .99873	0,5	8.69879 .69966 .70052 .70138 .70225	86,8 86,6 86,4 86,3 86,1	9.99946 •99945 •99945 •99945	0,2	2 51 53.24 2 52 13.87 2 52 34.49 2 52 55.12 2 53 15.75
0.0505 .0506 .0507 .0508 .0509	0.05048 .05058 .05068 .05078 .05088	10,0	0.99873 .99872 .99872 .99871 .99870	0,5	8.70311 .70397 .70482 .70568 .70653	85,9 85,8 85,6 85,4 85,2	9.99945 •99944 •99944 •99944 •99944	0,2	2 53 36.37 2 53 57.00 2 54 17.63 2 54.38.25 2 54 58.88
0.0510 .0511 .0512 .0513 .0514	0.05098 .05108 .05118 .05128 .05138	10,0	0.99870 .99869 .99869 .99868 .99868	0,5	8.70738 .70823 .70908 .70993 .71077	85,1 84,9 84,7 84,6 84,4	9.99943 .99943 .99943 .99943 .99943	0,2	2 55 19.51 2 55 40.13 2 56 00.76 2 56 21.38 2 56 42.01
0.0515 .0516 .0517 .0518 .0519	0.05148 .05158 .05168 .05178 .05188	10,0	0.99867 .99867 .99866 .99866 .99865	0,5	8.71162 .71246 .71330 .71414 .71497	84,3 84,1 83,9 83,8 83,6	9.99942 .99942 .99942 .99941	0,2	2 57 02.64 2 57 23.26 2 57 43.89 2 58 04.52 2 58 25.14
0.0520 .0521 .0522 .0523 .0524	0.05198 .05208 .05218 .05228 .05238	10,0	0.99865 .99864 .99864 .99863 .99863	0,5	8.71581 .71664 .71747 .71830 .71913	83,4 83,3 83,1 83,0 82,8	9.99941 .99941 .99941 .99940	0,2	2 58 45.77 2 59 06.40 2 59 27.02 2 59 47.65 3 00 08.28
0.0525 .0526 .0527 .0528 .0529	0.05248 .05258 .05268 .05278 .05288	10,0	0.99862 .99862 .99861 .99861	0,5	8.71996 .72079 .72161 .72243 .72325	82,6 82,5 82,3 82,2 82,0	9.99940 .99940 .99940 .99939 .99939	0,2	3 00 28.90 3 00 49.53 3 01 10.16 3 01 30.78 3 01 51.41
0.0530 .0531 .0532 .0533 .0534	0.05298 .05308 .05317 .05327 .05337	10,0	0.99860 .99859 .99859 .99858 .99857	0,5	8.72407 .72489 .72571 .72652 .72733	81,9 81,7 81,6 81,4 81,3	9.99939 .99939 .99938 .99938	0,2	3 02 12.03 3 02 32.66 3 02 53.29 3 03 13.91 3 03 34.54
0.0535 .0536 .0537 .0538 .0539	0.05347 .05357 .05367 .05377 .05387	10,0	0.99857 .99856 .99856 .99855	0,5	8.72815 .72896 .72977 .73057 .73138	81,1 80,9 80,8 80,6 80,5	9.99938 .99937 .99937 .99937	0,2	3 03 55.17 3 04 15.79 3 04 36.42 3 04 57.05 3 05 17.67
0.0540 .0541 .0542 .0543 .0544	0.05397 .05407 .05417 .05427 .05437	10,0	0.99854 .99854 .99853 .99853	0,5	8.73218 .73299 .73379 .73459 .73538	80,3 80,2 80,0 79,9 79,8	9.9937 .99936 .99936 .99936 .99936	0,2	3 05 38.30 3 05 58.93 3 06 19.55 3 06 40.18 3 07 00.81
0.0545 .0546 .0547 .0548 .0549	0.05447 .05457 .05467 .05477 .05487	10,0	0.99852 .99851 .99850 .99850	0,5	8.73618 .73698 .73777 .73856 .73935	79,6 79,5 79,3 79,2 79,0	9.99935 .99935 .99935 .99935 .99935	0,2	3 07 21.43 3 07 42.06 3 08 02.68 3 08 23.31 3 08 43.94
0.0550	0.05497	10,0	0.99849	0,5	8.74014	78,9	9.99934	0,2	3 09 04.56
U	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh lu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	iog sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	Ú
0.0550 .0551 .0552 .0553 .0554	0.05497 .05507 .05517 .05527 .05537	10,0	0.99849 .99848 .99848 .99847 .99847	0,5 0,6	8.74014 .74093 .74172 .74250 .74329	78,9 78,7 78,6 78,5 78,3	9.99934 .99934 .99934 .99933	<b>0,2</b>	3 09 04.56 3 09 25.19 3 09 45.82 3 10 06.44 3 10 27.07
0.0555 .0556 .0557 .0558 .0559	0.05547 .05557 .05567 .05577 .05587	10,0	0.99846 .99845 .99845 .99844	<b>0,</b> 6	8.74407 .74485 .74563 .74641 .74719	78,2 78,0 77,9 77,7 77,6	9.99933 .99933 .99932 .99932	0,2	3 10 47.70 3 11 08.32 3 11 28.95 3 11 49.58 3 12 10.20
0.0560 .0561 .0562 .0563 .0564	0.05597 .05607 .05617 .05627 .05637	10,0	0.99843 .99843 .99842 .99842 .99841	0,6	8.74796 .74873 .74951 .75028 .75105	77,5 77,3 77,2 77,1 76,9	9.99932 .99932 .99931 .99931	0,2	3 12 30.83 3 12 51.46 3 13 12.08 3 13 32.71 3 13 53.34
0.0565 .0566 .0567 .0568 .0569	0.05647 .05657 .05667 .05677 .05687	10,0	0.99840 .99840 .99839 .99839 .99838	0,6	8.75182 .75258 .75335 .75411 .75488	76,8 76,6 76,5 76,4 76,2	9.99931 .99930 .99930 .99930	0,2	3 14 13.96 3 14 34.59 3 14 55.21 3 15 15.84 3 15 36.47
0.0570 .0571 .0572 .0573 .0574	0.05697 .05707 .05717 .05727	10,0	0.99838 .99837 .99836 .99836	0,6	8.75564 .75640 .75716 .75792 .75867	76,1 76,0 75,8 75,7 75,6	9.99929 .99929 .99929 .99928	0,2	3 15 57.09 3 16 17.72 3 16 38.35 3 16 58.97 3 17 19.60
0.0575 .0576 .0577 .0578 .0579	0.05747 .05757 .05767 .05777 .05787	10,0	0.99835 .99834 .99834 .99833 .99832	0,6	8.75943 .76018 .76093 .76169 .76244	75,4 75,3 75,2 75,1 74,9	9.99928 .99928 .99928 .99927 .99927	0,2 0,3	3 17 40.23 3 18 00.85 3 18 21.48 3 18 42.11 3 19 02.73
0.0580 .0581 .0582 .0583 .0584	0.05797 .05807 .05817 .05827 .05837	10,0	0.99832 .99831 .99830 .99830	<b>0,</b> 6	8.76318 .76393 .76468 .76542 .76617	74,8 74,7 74,5 74,4 74,3	9.99927 .99927 .99926 .99926 .99926	0,3	3 19 23.36 3 19 43.99 3 20 04.60 3 20 25.22 3 20 45.86
0.0585 .0586 .0587 .0588	0.05847 .05857 .05867 .05877 .05887	IO,O	0.99829 .99828 .99828 .99827	0,6	8.76691 .76765 .76839 .76913 .76986	74,2 74,0 73,9 73,8 73,6	9.99926 •99925 •99925 •99925	<b>0,3</b>	3 21 06.49 3 21 27.12 3 21 47.72 3 22 08.37 3 22 29.00
0.0590 .0591 .0592 .0593 .0594	0.05897 .05907 .05917 .05927 .05937	10,0	0.99826 .99825 .99825 .99824 .99824	0,6	8.77060 .77133 .77207 .77280 .77353	73,5 73,4 73,3 73,2 73,0	9.99924 .99924 .99924 .99924 .99923	0,3	3 22 49.62 3 23 10.25 3 23 30.86 3 23 51.50 3 24 12.13
0.0595 .0596 .0597 .0598	0.05946 .05956 .05966 .05976 .05986	10,0	0.99823 .99822 .99822 .99821 .99821	0,6	8.77426 .77499 .77572 .77644 .77717	72,9 72,8 72,7 72,5 72,4	9.99923 .99923 .99922 .99922	0,3	3 24 32.76 3 24 53.38 3 25 14.0 3 25 34.6 3 25 55.26
0.0600	0.05996	10,0	0.99820	0,6	8.77789	72,3	9.99922	0,3	3 26 15.8
น	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F₀′	u

SMITHSONIAN TABLES

<b>_</b>		in u					lar Fun	7	•					
<b> </b>	_	in u	ωF	o' COS	<b>u</b> • 611	ω F <sub>0</sub> ′	log sin	u a	<b>F</b> <sub>0</sub> ′	log c	os u o	F <sub>0</sub> ′		u
0.03 .05 .05 .06	01 .0 02 .0 03 .0 04 .0	05996 06006 06016 06026 06036		0.998 .998 .998 .998	319 319 318	0,6	8.7778 .778 .7793 .7800	33 5	72,3 72,2 72,1 71,9 71,8	.999	)22 )21 )21	0,3	3 3	26 15 26 36 26 57 27 17 27 38
0.06 .06 .06 .06	06   .0 07   .0 08   .0 09   .0	6046 6056 6066 6076 6086	10,	0.998 .998 .998 .998	16 16 15	<b>0,</b> 6	8.7814 .7822 .7829 .7836 .7843	1 2 4	71,7 71,6 71,5 71,3 71,2	9.999 .999 .999 .999	20 20 20	0,3	3 3 3 3	27 59 28 19 28 40 29 00 29 21
0.061 .061 .061 .061	11 .00 22 .00 3 .00 4 .00	5096 5106 5116 5126 5136	10,0	.998 .998 .998	13 13 12	<b>0,</b> 6	8.78500 .78572 .78648 .78719	3	71,1 71,0 70,9 70,8 70,6	9.999 .999 .999 .999	19 19 18	0,3	3 3	29 42, 30 02, 30 23, 30 44, 31 04,
0.061 .061 .061 .061	6 .06 7 .06 8 .06 9 .06	156 166 176 186	10,0	0.9981 .9981 .9980 .9980	0 0 9	0,6	8.78860 .78931 .79001 .79071 .79141	7 7	0,5 0,4 0,3 0,2 0,1	9.9991 .9991 .9991 .9991	8 7 7	0,3	3 3 3 3 3	31 25. 31 45. 32 06. 32 27. 32 47.
0.0620 .0621 .0622 .0623	.06 .06 .06	206 216 226 236	10,0	0.9980 .9980 .9980 .9980	7   .	0,6	8.79211 .79281 .79351 .79421 .79490	6	0,0 9,8 9,7 9,6 9,5	9.9991 .9991 .9991 .9991	6   6   5	33	3 3 3 3 3 3	33 08.2 33 29.6 33 49.6 4 10.3
0.0625 .0626 .0627 .0628	.062 .062 .062	256 266 276	10,0	0.99805 .99804 .99804 .99803		,6	8.79560 .79629 .79698 .79767 .79836	69	),3 ),2 ),1	9.99915 .99915 .99914 .99914		.3	3 3. 3 3. 3 3.	4 51.5 5 12.1 5 32.8 5 53.4 6 14.0
0.0630 .0631 .0632 .0633	0.062 .063 .063 .063	06 16 26	10,0	0.99802 .99801 .99800 .99800		6	8.79905 .79974 .80043 .80111 .80180	68 68 68 68 68	,7 ,6 ,5	9.99914 .99913 .99913 .99913		3	3 37 3 37 3 37	5 34.6 5 55.3 7 15.9 7 36.56 7 57.19
0.0635 .0636 .0637 .0638 .0639	0.063 .063 .063 .063 .063	56 56 76 36	10,0	0.99798 .99798 .99797 .99797	0,0	6   8	8.80248 .80316 .80385 .80453 .80521	68, 68, 68, 68,	2 I 0	.99912 .99912 .99912 .99912	0,;		3 38 3 38 3 39	38.44 59.05 19.69
0.0640 .0641 .0642 .0643	0.0639 .0640 .0641 .0642	6 6 6 6	0,0	0.99795 ·99795 ·99794 ·99793 ·99793	0,6		8.80588 .80656 .80724 .80791 .80859	67, 67, 67, 67,	7   6   4   .	.99911 .99910 .99910	0,3		3 40 3 40 3 41	00.95 21.57 42.20 02.83 23.45
0.0645 .0646 .0647 .0648 .0649	0.0644 .0645 .0646 .0647 .0648	5 5	0,0	0.99792 .99791 .99791 .99790	0,6	[a2:1]	.80926 .80993 .81060 .81127 .81194	67,2 67,1 67,0 66,9 66,8		.99910 .99909 .99909 .99909 .99908	0,3	333333	3 4I 3 42 3 42 4 42	44.08 04.71 25.33 45.96 06.59
0.0650	0.0649	10	0,0	0.99789	0,6		81261 g <u>sinh iu</u>	66,7	9.	99908	0,3	3	43	27.21

u	sin u	ω F <sub>0</sub> ′	COS U	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	U
0.0650 .0651 .0652 .0653 .0654	0.06495 .06505 .06515 .06525 .06535	10,0	0.99789 .99788 .99788 .99787 .99786	0,6 0,7	8.81261 .81327 .81394 .81460 .81527	66,7 66,6 66,5 66,4 66,3	9.99908 .99908 .99908 .99907 .99907	0,3	3 43 27.21 3 43 47.84 3 44 08.47 3 44 29.09 3 44 49.72
0.0655 .0656 .0657 .0658	0.06545 .06555 .06565 .06575 .06585	10,0	0.99786 .99785 .99784 .99784 .99783	0,7	8.81593 .81659 .81725 .81791 .81857	66,2 66,1 66,0 65,9 65,8	9.99907 .99906 .99906 .99906	0,3	3 45 10.34 3 45 30.97 3 45 51.60 3 46 12.22 3 46 32.85
0.0660 .0661 .0662 .0663	0.06595 .06605 .06615 .06625 .06635	10 <b>,</b> 0	0.99782 .99782 .99781 .99780 .99780	0,7	8.81923 .81989 .82054 .82120 .82185	65,7 65,6 65,5 65,4 65,3	9.99905 .99905 .99905 .99904 .99904	0,3	3 46 53.48 3 47 14.10 3 47 34.73 3 47 55.36 3 48 15.98
o.o665 .o666 .o667 .o668	0.06645 .06655 .06665 .06675 .06685	10,0	0.99779 .99778 .99778 .99777 .99776	0,7	8.82250 .82315 .82380 .82445 .82510	65,2 65,1 65,0 64,9 64,8	9.99904 .99904 .99903 .99903	0,3	3 48 36.61 3 48 57.24 3 49 17.86 3 49 38.49 3 49 59.12
0.0670 .0671 .0672 .0673	0.06695 .06705 .06715 .06725 .06735	10,0	0.99776 .99775 .99774 .99774 .99773	0,7	8.82575 .82640 .82704 .82769 .82833	64,7 64,6 64,5 64,4 64,3	9.99902 .99902 .99902 .99901	0,3	3 50 19.74 3 50 40.37 3 51 00.99 3 51 21.62 3 51 42.25
o.0675 .0676 .0677 .0678 .0679	0.06745 .06755 .06765 .06775 .06785	10,0	0.99772 .99772 .99771 .99770	0,7	8.82897 .82962 .83026 .83090 .83154	64,2 64,1 64,1 64,0 63,9	9.99901 .99901 .99900 .99900	0,3	3 52 02.87 3 52 23.50 3 52 44.13 3 53 04.75 3 53 25.38
0.0680 .0681 .0682 .0683	0.06795 .06805 .06815 .06825 .06835	10,0	0.99769 .99768 .99768 .99767	0,7	8.8 <sub>3217</sub> .8 <sub>3281</sub> .8 <sub>3345</sub> .8 <sub>3408</sub> .8 <sub>3472</sub>	63,8 63,7 63,6 63,5 63,4	9.99900 .99899 .99899 .99898	0,3	3 53 46.01 3 54 06.63 3 54 27.26 3 54 47.89 3 55 08.51
o.0685 .0686 .0687 .0688 .0689	0.06845 .06855 .06865 .06875 .06885	10,0	0.99765 .99765 .99764 .99763 .99763	0,7	8.83535 .83598 .83662 .83725 .83788	63,3 63,2 63,1 63,0 62,9	9.99898 .99898 .99897 .99897	0,3	3 55 29.14 3 55 49.77 3 56 10.39 3 56 31.02 3 56 51.65
0.0690 .0691 .0692 .0693 .0694	0.06895 .06905 .06914 .06924 .06934		0.99762 .99761 .99761 .99760 .99759	0,7	8.83850 .83913 .83976 .84039 .84101	62,8 62,8 62,7 62,6 62,5	9.99897 .99896 .99896 .99896 .99895	0,3	3 57 12.27 3 57 32.90 3 57 53.52 3 58 14.15 3 58 34.78
0.0695 .0696 .0697 .0698	0.06944 .06954 .06964 .06984		0.99759 .99758 .99757 .99756 .99756	0,7	8.84164 .84226 .84288 .84350 .84412	62,4 62,3 62,2 62,1 62,0	9.99895 .99895 .99894 .99894	0,3	3 58 55.40 3 59 16.03 3 59 36.66 3 59 57.28 4 00 17.91
0.0700	0.06994	10,0	0.99755	0,7	.84474	61,9	9.99894	0,3	4 00 38.54
u	-I sinh iu	ω, <b>F</b> <sub>0</sub> ′	cosh iu	ω <b>F</b> <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> (	log cosh iu	ω F <sub>0</sub> ′	a

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
	2 26224				0 0	67.0	0.0004		4 00 38.5
0.0700	0.05994	10,0	0.99755	0,7	8.84474	61,9	9.99894	0,3	
.0701			•99754		.84536	61,9	.99893		4 00 59.1
.0702	.07014		•99754		.84598	61,8	99893		4 01 19.7
.0703	.07024 .07034		·99753 ·99752		.84660 .84721	61,7 61,6	.99893	ſ	4 01 40.4 4 02 01.0
0.0705	0.07044	10,0	0.99752	0,7	8.84783	61,5	9.99892	0,3	4 02 21.6
.0705	.07054		.99751		.84844	61,4	.99892		4 02 42.3
.0707	.07064		.99750	ĺ	84905	61,3	.99891		4 03 02.9
.0708	.07074		.99749		.84957	61,2	16866.		4 03 23.5
.0709			99749		.85028	61,2	.99891		4 03 44.1
0.0710	0.07094	10,0	0.99748	0,7	8.85089	61,1	9.99890	0,3	4 04 04.8
.0711	.07104		99747	ł	.85150	61,0	.99890		4 04 25.4
.0712			99747		.85211	60,9	.99890		4 04 46.0
.0713	.07124		.99746	4, 1	.85272	60,8	.99890		4 05 06.6
.0714	.07134		•99745		.85333	60,7	.99889		4 05 27.3
0.0715	0.07144	10,0	0.99744	0,7	8.85394	60,6	9.99889	0,3	4 05 47.9
.0716	.07154	1.2	99744		.85454	60,6	.99889		4 06 08,5
.0717	.07164		99743		.85515	60,5	.99888		4 06 29.1
.0718	.07174		.99742		.85575	60,4	99888		4 06 49.8
.0719	.07184		.99742		.85635	60,3	.99888		4 07 10.4
0.0720	0.07194	10,0	0.99741	0,7	8.85696	60,2	9.99887	0,3	4 07 31.0
.0721	.07204		99740		.85756	60,1	.99887		4 07 51.6
.0722	.07214		•99739		.85816	60,0	99887		4 08 12.3
.0723	.07224		•99739		.85876	60,0	.99886		4 08 32.9
.0724	.07234		.99738	_	.85936	59,9	.99886		4 08 53.5
0.0725	0.07244	10,0	0.99737	0,7	8.85996	59,8	9.99886	0,3	4 09 14.2
.0726	.07254		99737		.86056	59,7	.99885		4 09 34.8
.0727	.07264		.99736		86115	59,6	.99885		4 09 55.4
.0728	.07274	100	99735		.86175	59,6	.99885		4 10 16.0
.0729	.07284		99734		.86234	59,5	.99884		4 10 36.7
0.0730	0.07294	10,0	0.99734	0,7	8.86294 .86353	59,4	9.99884	0.3	4 10 57.3
.0731	07303		•99733		.86412	59,3	99884		4 II 17.9 4 II 38.5
.0732	.07313		.99732	1		59,2	.99883		
.0733	.07323		.99731		.85472 .86531	59,1			4 11 59.2 4 12 19.8
.0734	.07333	:	.99731		"	59,1	.99883		,
0.0735	0.07343	10,0	0.99730	0,7	8.86590 .86649	59,0	9.99883	0,3	4 12 40.4 4 13 01.0
.0736	.07353		.99729		.86707	58,9 58.8	.99882		4 13 01.0
.0737	.07363		.99729		.86766	50,0 58,7	.99882		4 13 21.7 4 13 42.3
.0738	.07373		.99728 .99727		.86825	58,7	.99881		4 14 02.9
0.0740	0.07393	10,0	0.99726	0,7	8.86884	58,6	9.99881	0,3	4 14 23.6
.0741	.07403	.,-	.99726		.86942	58,5	.99881	0	4 14 44.2
.0742	.07413		99725		87001	58,4	.99880		4 15 04.8
.0743	.07423		99724		87059	58,3	.99895		4 15 25.4
.0744	.07433		99723		.87117	58,3	.99880	*	4 15 46.10
0.0745	0.07443	10,0	0.99723	0,7	8.87175	58,2	9.99879	0,3	4 16 06.7.
.0746	.07453		.99722		.87234	58,1	.99879		4 16 27.3
.0747	.07463		.99721		.87292	58,0	.99879		4 16 47.9
.0748	.07473		.99720		.87350	58,0	.99878		4 17 08.6
.0749	.07483		.99720		.87408	57,9	.99878		4 17 29.2
0.0750	0.07493	10,0	0.99719	0,7	8.87465	57,8	9.99878	0,3	4 17 49.8
			· · · · · · · · · · · ·		log <mark>sinh iu</mark>		·		

	sin u	ω F <sub>0</sub> ′	cos u	ω Fo′	log sin u	ω F <sub>0</sub> /	log cos u	ω F <sub>0</sub> ′	u
u 	SIN U	ω Γο	COS U	<b>₩ F</b> 0	100 8111 10		S to S		1. <b>u</b>
0.0750	0.07493	10,0	0.99719	0,7	8.87465	57,8	9.99878	0,3	4° 17′ 49".86
.0751	.07503	20 (d) 1	.99718	0,8	.87523	57.7	.99877		4 18 10.49
.0752	.07513	6	.99717	<i>5</i> 9	.87581	57,6	.99877		4 18 31.11
.0753	07523		.99717	14.3	.87638 .87695	57,6 57,5	.998 <i>77</i> .998 <i>7</i> 6		4 18 51.74 4 19 12.37
.0754	.07533	-	.99/10		- Markersker Types	3/,3	.99070	5 S. 19 <sup>1</sup>	4 19 12.37
0.0755	0.07543	10,0	0.99715	0,8	8.87753	57,4	9.99876	0,3	4 19 32.99
.0756	.07553		.99714	Charles.	.87811 .87858	57,3	.99876		4 19 53.62 4 20 14.25
.0757	.07503	17.1	.99714	1.776	.87925	57,3 57,2	.99875	- a. a	4 20 34.87
.0759	.07583	1.0	.99712		.87982	57,1	.99875	的地位的	4 20 55.50
0.0760	0.07500	700	0.99711	0,8	8.88040	## A	9.99874	0,3	4 21 16.13
0.0760 .0751	0.07593	10,0	.99711	0,6	.88097	57,0 57,0	.99874	0,3	4 21 36.75
0762	.07613	1 114	.99710		.88153	56,9	99874	Liga .	4 21 57.38
.0753	.07623		.99709		.88210	56,8	.99873		4 22 18.00
.0754	.07633	Section 1	.99708	ļ	.88267	56,7	.95873	and property	4 22 38.63
0.0765	0.07643	10,0	0.99708	0,8	8.88324	56,7	9.99873	0,3	4 22 59.26
.0700	.07653		.99707	77 774 14	.88380	56,6	.99872		4 23 19.88
.0767	.07562		.99706		.88437	56,5	.99872	100	4 23 40.51
.0768 .0769	.07672		.99705 .99704		.88493 .88550	56,4 56,4	.99872 .99871		4 24 01.14 4 24 21.76
.0,09	.07002		199704					, and the second	
0.0770	0.07692	10,0	0.99704	0,8	8.88606	56,3	9.99871	0,3	4 24 42.39
.0771	.07702		.99703	1	.88562	56,2 56,1	.99871	100	4 25 03.02
.0772	.07712	(A)	.99702		,88719 .88775	56,1	.99870		4 25 23.04
.0774	.07732		.99701		88831	56,0	.99870		4 26 04.90
				0,8	0.0000=				
0.0775	0.07742	10,0	0.99700	0,0	8.88887 .88943	55,9	9.99869	0,3	4 26 25.52
.0776	.07762		.99698		.88998	55,9 55,8	.99869	a tanà	4 27 06.78
.0778	.07772		.99698		89054	55,7	.99868	e de la Caraca	4 27 27.40
.0779	.07782	1	.99697	ŧ	.89110	55,6	.99868		4 27 48.03
0.0780	0.07792	10,0	0.00606	0.8	8.89165	55,6	9.99868	0,3	4 28 08.65
0781	.07802		.99695	1	.89221	55,5	.99867		4 28 29.28
.0782	.07812		99694		.89275	55,4	.99867	32311282	4 28 49.91
.0783	.07822		.99694 .99693	Express with a	.89332	55,4	.99867		4 29 10.53 4 29 31.16
.0704	.07032		.99093			55,3	.99000	1 N. 1	4 29 31
0.0785	0.07842	10,0	0.99692	0,8	8.89442	55,2	9.99866	0,3	4 29 51.79
.0785	.07852	1.0	.99691		.89498	55,1	.99866		4 30 12.41
.0787	.07862	P. 15	.99690		.89553 .89608	55,1 55,0	.99865		4 30 33.04 4 30 53.67
.0789	.07882	grid a sile	.99689		.89663	54,9	.99865	100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to 100 to	4 31 14.29
0 0700	0.05000	100	0.00688	0,8		1.00			
0.0790 .0791	0.07892	10,0	.99687	0,0	8.89718	54,9 54,8	9.99864	0,3	4 31 34.92 4 31 55.55
.0792	.07912	245.7	.99687	1	89827	54,7	.99864		4 31 33.33
.0793	.07922		.99686		.89882	54,7	.99863		4 32 36.80
.0794	.07932		.99685	1	.89936	54,6	.99863		4 32 57 43
0.0795	0.07942	10,0	0.99684	0,8	8.89991	54,6	9.99863	0,3	4 33 18.05
.0796	.07952		.99683		.90045	54,4	.99862		4 33 38.68
.0797	.07952	100	.99683		.90100	54,4	.99862	skiret i Ra	4 33 59.31
.0798	.07972		.99682		.90154	54,3 54,2	.99862	HEYY V	4 34 19.93 4 34 40.56
11						J-17-			
0.0800	0.07991	10,0	0.99680	0,8	8.90263	54,2	9.99861	0,3	4 35 01.18
			A STATE OF THE STA		log <mark>sinh iu</mark>			<del> </del>	
l u	-i sinh iu	ω F₀′	cosh iu	ω F <sub>0</sub> ′	log i	ωF <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u
1	بت بسیاری بات ساعی					description (whole		Surement of the Management	dir barantiana di karata da kanada da ka

u	sin u	ω F <sub>0</sub> ′	cos u	ω <b>F</b> <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0800 .0801 .0802 .0803	0.07991 .08001 .08011 .08021	10,0	9.99680 .99679 .99679 .99678	0,8	8.90263 .90317 .90371 .90425	54,2 54,1 54,0 54,0 53,9	9.99861 .99861 .99860 .99860	0,3	4 35 01.18 4 35 21.81 4 35 42.44 4 36 03.06 4 36 23.69
0.0805 .0806 .0807 .0808 .0809	0.08041 .08051 .08061 .08071	10,0	0.99676 .99675 .99675 .99674 .99673	0,8	8.90533 .90586 .90640 .90694 .90747	53,8 53,8 53,7 53,6 53,6	9.99859 .99859 .99858 .99858	0,4	4 36 44.32 4 37 04.94 4 37 25.57 4 37 46.20 4 38 06.82
0.0810 .0811 .0812 .0813	0.08091 .08101 .08111 .08121 .08131	10,0	0.99672 .99671 .99671 .99570 .99669	0,8	8.90801 .90854 .90908 .90951 .91014	53,5 53,4 53,4 53,3 53,2	9.99857 .99857 .99857 .99856 .99856	0,4	4 38 27.45 4 38 48.08 4 39 08.70 4 39 29.33 4 39 49.96
0.0815 .0816 .0817 .0818 .0819	0.08141 .08151 .08161 .08171 .08181	10,0	o.99668 .99667 .99666 .99666	0,8	8.91068 .91121 .91174 .91227 .91280	53,2 53,1 53,0 53,0 52,9	9.99856 .99855 .99855 .99855 .99854	0,4	4 40 10.58 4 40 31.21 4 40 51.83 4 41 12.46 4 41 33.09
0.0820 .0821 .0822 .0823 .0824	0.08191 .08201 .08211 .08221 .08231	10,0	0.99664 .99663 .99662 .99662	0,8	8.91333 .91386 .91438 .91491 .91544	52,8 52,8 52,7 52,7 52,6	9.99854 99853 99853 99853 99852	0,4	4 41 53.71 4 42 14.34 4 42 34.97 4 42 55.59 4 43 16.22
0.0825 .0826 .0827 .0828 .0829	0.08241 .08251 .08261 .08271 .08281	10,0	0.99660 .99659 .99658 .99657 .99657	0,8	8.91596 .91649 .91701 .91753 .91806	52,5 52,5 52,4 52,3 52,3	9.99852 .99851 .99851 .99851	0,4	4 43 36.85 4 43 57.47 4 44 18.10 4 44 38.73 4 44 59.35
0.0830 .0831 .0832 .0833 .0834	0.08290 .08300 .08310 .08320 .08330	10,0	0.99656 .99655 .99654 .99653 .99652	0,8	8.91858 .91910 .91962 .92014 .92066	52,2 52,1 52,1 52,0 52,0	9.99850 .99850 .99850 .99849 .99849	0,4	4 45 19.98 4 45 40.61 4 46 01.23 4 46 21.86 4 46 42.48
0.0835 .0836 .0837 .0838 .0839	0.08340 .08350 .08360 .08370 .08380	10,0	0.99652 .99651 .99650 .99649 .99648	0,8	8.92118 .92170 .92222 .92274 .92325	51,9 51,8 51,8 51,7 51,6	9.99848 .99848 .99848 .99847	0,4	4 47 03.11 4 47 23.74 4 47 44.36 4 48 04.99 4 48 25.62
0.0840 .0841 .0842 .0843	0.08390 .08400 .08410 .08420 .08430	10,0	0.99647 .99647 .99646 .99645	0,8	8.92377 .92428 .92480 .92531 .92583	51,6 51,5 51,5 51,4 51,3	9.99847 .99846 .99846 .99845	0,4	4 48 46.24 4 49 06.87 4 49`27.50 4 49 48.12 4 50 08.75
0.0845 .0846 .0847 .0848 .0849	0.08440 .08450 .08460 .08470 .08480	10,0	0.99643 .99642 .99642 .99641	0,8	8.92634 .92685 .92736 .92788 .92839	51,3 51,2 51,2 51,1 51,0	9.99845 .99844 .99844 .99843	0,4	4 50 29.38 4 50 50.00 4 51 10.63 4 51 31.26 4 51 51.88
0.0850	0.08490	10,0	0.99639	0,8	8.92890	51,0	9.99843	0,4	4 52 12.51
· u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

			1	100-08-000				In the State of th	Hartan Kali tanahasi sacadatan
u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	· u
0.0850 .0851 .0852 .0853 .0854	0.08490 .08500 .08510 .08520 .08530	10,0	0.99639 .99638 .99637 .99636	0,8 0,8 0,9	8.92890 .92941 .92991 .93042 .93093	51,0 50,9 50,9 50,8 50,7	9.99843 .99843 .99842 .99842	0,4	4 52 12.51 4 52 33.14 4 52 53.76 4 53 14.39 4 53 35.01
0.0855 .0856 .0857 .0858 .0859	0.08540 .08550 .08560 .08569 .08579	10,0	0.99635 .99634 .99633 .99632 .99631	0,9	8.93144 .93194 .93245 .93295 .93346	50,7 50,6 50,6 50,5 50,4	9.99841 .99841 .99840 .99840 .99840	0,4	4 53 55.64 4 54 16.27 4 54 36.89 4 54 57.52 4 55 18.15
0.0860 .0861 .0862 .0863	0.08589 .08599 .08609 .08619	10,0	0.99630 .99630 .99629 .99628	0,9	8.93396 •93447 •93497 •93547 •93597	50,4 50,3 50,3 50,2 50,1	9.99839 .99839 .99838 .99838 .99838	0,4	4 55 38.77 4 55 59.40 4 56 20.03 4 56 40.65 4 57 01.28
0.0865 .0866 .0867 .0868 .0869	0.08639 .08649 .08659 .08669 .08679	10,0	0.99626 .99625 .99624 .99624	0,9	8.93647 .93697 .93747 .93797 .93847	50,1 50,0 50,0 49,9 49,9	9.99837 .99837 .99837 .99836 .99836	0,4	4 57 21.91 4 57 42.53 4 58 03.16 4 58 23.79 4 58 44.41
0.0870 .0871 .0872 .0873 .0874	0.08689 .08699 .08709 .08719 .08729	10,0	0.99622 .99621 .99620 .99619 .99618	0,9	8.93897 •93947 •93997 •94046 •94096	49,8 49,7 49,7 49,6 49,6	9.99835 .99835 .99835 .99834 .99834	0,4	4 59 05.04 4 59 25.66 4 59 46.29 5 00 06.92 5 00 27.54
0.0875 .0876 .0877 .0878 .0879	0.08739 .08749 .08759 .08769 .08779	10,0	0.99617 .99617 .99616 .99615	0,9	8.94145 .94195 .94244 .94294 .94343	49.5 49.5 49.4 49.3 49.3	9.99834 .99833 .99833 .99832 .99832	0,4	5 00 48.17 5 01 08.80 5 01 29.42 5 01 50.05 5 02 10.68
0.0880 .0881 .0882 .0883 .0884	0.08789 .08799 .08809 .08819 .08828	10,0	0.99613 .99612 .99611 .99610	0,9	8.94392 .94441 .94491 .94540 .94589	49,2 49,2 49,1 49,1 49,0	9.99832 .99831 .99831 .99830 .99830	0,4	5 02 31.30 5 02 51.93 5 03 12.56 5 03 33.18 5 03 53.81
0.0885 .0886 .0887 .0888 .0889	0.08838 .08848 .08858 .08868 .08878	10,0	0.99609 .99608 .99607 .99606 .99605	0,9	8.94638 .94687 .94735 .94784 .94833	48,9 48,9 48,8 48,8 48,7	9.99830 .99829 .99829 .99829	0,4	5 04 14.44 5 04 35.06 5 04 55.69 5 05 16.31 5 05 36.94
0.0890 .0891 .0892 .0893 .0894	0.08888 .08898 .08908 .08918 .08928	10,0	0.99604 .99603 .99602 .99602	0,9	8.94882 .94930 .94979 .95027 .95076	48,7 48,6 48,6 48,5 48,4	9.99828 .99827 .99827 .99827 .99826	<b>0,4</b>	5 05 57.57 5 06 18.19 5 06 38.82 5 06 59.45 5 07 20.07
0.0895 .0896 .0897 .0898 .0899	0.08938 .08948 .08958 .08968 .08978	10,0	0.99600 .99599 .99598 .99597 .99596	0,9	8.95124 .95173 .95221 .95269 .95317	48,4 48,3 48,3 48,2 48,2	9.99826 .99825 .99825 .99825 .99824	0,4	5 07 40.70 5 08 01.33 5 08 21.95 5 08 42.58 5 09 03.21
0.0900	0.08988	10,0	0.99595	0,9	8.95366	48,1	9.99824	0,4	5 09 23.83
u	-i sinh lu	ω <b>F</b> <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> '	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.0000	0.08088	10,0	0.99595	0,9	8.95366	48,1	9.99824	0,4	5°09′23″.83
.0901	.08998	10,0	.99594	. 0,9	.95414	48,1	.99823	0,4	5 09 44.40
.0902	.09008		•99593		95462	48,0	.99823		5 10 05.00
.0903	.00018		-99593		.95510	48,0	.99823		5 10 25.71
.0904	.09028		•99592		.95558	47,9	.99822		5 10 46.34
0.0905	0.09038	10,0	0.99591	0,9	8.95606	47,9	9.99822	0,4	5 11 06.96
<b>.0</b> 906	.09048		.99590		.95653	47,8	.99822		5 11 27.59
.0907	.09058		.99589		.95701	47,8	.99821		5 11 48.22
.0908	.09068		.99588 .99587		•95749 •95797	47,7 47,6	.99821		5 12 08.84 5 12 29.47
0.0010	0.09087	10,0	0.99586	0,9	8.95844	47,6	9.99820	0,4	5 12 50.10
.0911	.09097	10,0	99585	۰, ورو	.95892	47,5	.99820	-,,	5 13 10.72
.0012	.09107		99584		95939	47,5	.99819	1.0	5 13 31.35
.0913	.09117		.99584		95987	47,4	.99819	55.66 55.66	5 13 51.98
.0914	.09127		.99583	· .	.96034	47,4	.99818	Control (1984) Control (1984) Control (1984)	5 14 12.60
0.0915	0.09137	10,0	0.99582	0,9	8.96081 .96129	47.3	9.99818	0,4	5 14 33.23 5 14 53.86
.0916 .0917	.09147		.99581 .99580		96176	47,3 47,2	.99817	ł	5 14 53.86 5 15 14.48
.0917	.09157		.99579		.96223	47,2	1 1		5 15 35.11
.0910	.09177		99578		.96270	47,1	.99816		5 15 55.74
0.0920	0.09187	10,0	0.99577	0,9	8.96317	4 <b>7,</b> I	9.99816	0,4	5 16 16.36
.0921	.09197		.99576		.96365	47,0	.99816		5 16 36.99
.0922	.09207		99575		.96412	47,0	.99815		5 16 57.62
.0923	.09217		99574		.96458	46,9	.99815		5 17 18.24
.0924	.09227		99573		.96505	46,9	.99814		5 17 38.87
0.0925	0.09237	10,0	0.99572	0,9	8.96552	46,8	9.99814	0,4	5 17 59.49
.0926	.09247		99572		96599	46,8	.99814		5 18 20.12
.0927	.09257		.99571		.96646	46,7	.99813		5 18 40.75
.0920	.09267		.99570 .99569		.96739	46,7 46,6	.99813		5 19 01.37 5 19 22.00
0.0930	0.09287	10,0	0.99568	0,9	8.96786	46,6	9.99812	0,4	5 19 42.63
.0931	.09297		.99567		.96832	46,5	.99812		5 20 03.25
.0932	.09307		.99566		.96879	46,5	.99811		5 20 23.88
.0933	.09316		.99565 .99564		.96925	46,4 46,4	.99811		5 20 44.51 5 21 05.13
	0.09336	10,0		0,9	8.97018				
.0935	.09346	10,0	0.99563 .99562	0,9	97064	46,3 46,3	9.99810	0,4	5 21 25.76 5 21 46.30
0937	.09340		.99561		.97004	46,2	.99809		5 21 40.39
.0938	.09366		.99560		97157	46,2	.99809		5 22 27.64
.0939	.09376		99559		.97203	46,1	.99808		5 22 48.27
0.0940	0.09386	10,0	0.99559	0,9	8.97249	46,1	9.99808	0,4	5 23 08.89
.0941	.09396		.99558		.97295	46,0	.99807		5 23 29.52
0942	.09406		99557		·\$7341	46,0	.99807		5 23 50.14
.0943 .0944	.09416		.99556 .99555		.973 <sup>8</sup> 7 .97433	45,9 45,9	.99807 .99806		5 24 10.77 5 24 31.40
0.0945	0.09436	10,0	0.99554	0,9	8.97479	45,8	9.99806	0,4	5 24 52.02
.0946	.09446	,-	•99553	~	.97524	45,8	.99805	~;~	5 25 12.65
0947	.09456		.99552		97570	45,7	.99805		5 25 33.28
.0948	.09466		.99551		.97616	45,7	.99805		5 25 53.90
.0949	09476		.99550		.97661	45,6	.99804	,	5 26 14.53
0.0950	0.09486	10,0	0.99549	0,9	8.97707	45,6	9.99804	0,4	5 26 35.10
u	–i sinh iu	ω F₀′	cosh iu	ω F <sub>o</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

			cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	<b>ω F</b> ₀′	u
0.0950	0.09486	10,0	0.99549	0,9	8.97707	45,6	9.99804	0,4	5 26 35.16
.0951	.09496		.99548	0,9	97753	45,5	.99803		5 26 55.78
.0952	.09506		99547	1,0	.97798	45,5	.00803	n e e A	5 27 16.41
.0953	.09516		.99546		•97844	45,4	.99802		
.0954	.09526		•99545		.97889	45,4	.99802	1 2 2 1	5 27 57.66
0.0955	0.09535	10,0	0.99544	1,0	8.97934	45,3	9.99802	0,4	5 28 18.29
.0956	.09545		•99543	-	.97980	45.3	.99801	- 11 GM 1	5 28 38.92
.0957	.09555		.99542		.98025	45,2	.99801	60 - 1 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	5 28 59.54
.0958	.09565		99541		98070	45,2	.99800		5 29 20.17
.0059	09575		.99541		98115	45,1	.99800		5 29 40.79
0.0960	0.09585	10,0	0.99540	1,0	8.98160	45,1	9.99800	0,4	5 30 01.42
.0951	.09595		.99539		.98205	45,1	.99799	1 712	5 30 22.05
.0952	.09505		.99538		.98251	45,0	.99799	100	5 30 42.67
.0963	.09515	:	•99537		.98295	45,0	.99798		5 31 03.30
.0964	.09625		.99536		.98340	44,9	.99798		5 31 23.93
0.0965	0.09635	10,0	0.99535	1,0	8.98385	44,9	9.99797	0,4	5 31 44.55
.0966	.09645		99534		.08430	44,8	.99797		5 32 05.18 5 32 25.81
.0957	.09655		99533		.98475	44,8	99797		5 32 25.81
.0968	.09665		.99532		.98520	44,7	.99796		5 32 46.43
.0959	.09675		.99531		.98564	44,7	.99796		5 33 07.06
0.0970	0.09685	10,0	0.99530	1,0	8.98609	44,6	9.99795	0,4	5 33 27.69 5 33 48.31 5 34 08.94 5 34 29.57
.0971	.09695		.99529		.98654	44,6	.99795	7-78	5 33 48.31
.0972	.09705	4.6 BA 5 - 1	.99528		.98698	44,5	.99795	, i	5 34 08.94
.0973	.09715	ne e ingeneer. Leest	.99527		98743	44,5	99794	ra series es ago	5 34 29.57
.0974	.09725		.99526		.98787	44,4	99794		5 34 50.19
0.0975	0.09735	10,0	0.99525	1,0	8.98832	44,4	9.99793	0,4	5 35 10.82
.0976	.09745		99524	'	.98876	44,4	99793		5 35 31.45
.0977	.09754		.99523		.98920	44,3	.99792	1.1	5 35 52.07
.0978	.09764		.99522		98965	44,3	.99792	rie rome 可 projektion	5 36 12.70
.0979	.09774		.99521		99009	44,2	.99792		5 36 33.32
0.0980	0.09784	10,0	0.99520	1,0	8.99053	44,2	9.99791	0,4	5 36 53.95
.0981	.09794	iz - Martinea,	.99519		.99097	44,T	.99791	77.7%	5 37 14.58
.0982	.09804		.99518		.99141	44,1	.99790		5 37 35.20
.0983	.09814		.99517		.99185	44,0	.99790	~~: 10 ~ (2.2.1) <b>(1)</b> ~: 11 ~ (3.1.1)	5 37 55.83 5 38 16.46
.0984	.09824		.99516		.99229	44,0	.99789	in and a file	5 38 16.46
0.0985	0.09834	10,0	0.99515	1,0	8.99273	43,9	9.99789	0,4	5 38 37.08
.0986	.09844		.99514	1	.99317	43,9	.99789	-,-	5 38 57.71
.0987	09854		.99513		.99361	43.0	.99788	in the second se	5 39 18.34
.0988	.09864	e a sa	.99512		.99405	43,8	.99788		5 39 38.96
.0989	.09874		.99511		99449	43,8	.99787		5 39 59 59
0.0990	0.09884	10,0	0.99510	1,0	8.99493	43,7	9.99787	0,4	5 40 20.22
10001	.09894		.99509		.99536	43,7	.99786		5 40 40.84
.0992	.09904		.99508		.99580	43,6	.99786	en en en en en en en en en en en en en e	5 41 01.47
.0993	.09914		.99507		.99624	43,6	.99786	ran da sandi	5 41 22.10
0994	.09924		.99506		.99667	43,5	.99785	erskija ted <b>i</b>	5 41 42.72
0.0995	0.09934	10,0	0.99505	1,0	8.99711	43.5	9.99785	0,4	5 42 03.35
.0996	.09944		.99504	1	99754	43,5	.99784		5 42 23.97
.0997	.09953		.99503		.99798	43,4	.99784	10 July 2007 (19)	5 42 44.60
.0998	.09963		.99502		.99841	43,4	.99783		5 43 05.23
.0999	.09973		.99501		.99884	43,3	.99783	i Napodovajeni	5 43 25.85
0.1000	0.09983	10,0	0.99500	1,0	8.99928	43,3	9.99782	0,4	5 43 46.48
			100 No. 30	\	green argini	10.0		24.5	
u u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	COS II	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.100	0.00083	99,5	0.99500	10,0	8.99928	432,8	9.99782	4,4	5 43 46.
.101	.10083	99,5	.99490	10,1	9.00358	428,5	.99778	4,4	5 47 12.
.102	.10182	99,5	.99480	10,2	.00785	424,3	99774	4,4	5 50 39.0
. 103	.10282	99,5 99,5	.99470 .99460	10,3	.01207	420,2 416,1	.99769	4,5 4,5	5 54 05. 5 57 31.
0.105	0.10481	99.4	0.99449	10,5	9.02039	412,1	9.99760	4,6	6 00 57.8
. 106	. 10580	99,4	99439	10,6	.02449	408,2	.99756	4,6	6 04 24.0
.107	.10680	99,4	.99428	10,7	.02855	404,3	.99751	4,7	6 07 50.
.108 .109	.10878	99,4 99,4	.9941 <i>7</i> .9940 <i>7</i>	10,8	.03258	400,6 396,9	.99746 .99741	4,7 4,8	6 14 42.8
0.110	0.10978	99,4	0.99396	11,0	9.04052	393,2	9.99737	4,8	6 18 09.
.III	.11077	99,4	.99385	11,1	.04443	389,6	.99732	4,8	6 21 35.
.112	.11177	99,4 99,4	.99373	11,2	.04831	386,1 382,7	.99727	4,9 4,9	6 25 01.0
.114	.11375	99,4	•99351	11,4	.05596	379,3	.99717	5,0	6 31 54.
0.115	0.11475	99,3	0.99339	11,5	9.05974	376,0	9.99712	5,0	6 35 20.
.116	.11574	99,3	99328	11,6	.06348	372,7 369,5	.99707	5,1	6 38 46.
.117	.11773	99,3 99,3	.99316	11,7	.07087	366,3	.99702	5,1 5,1	6 45 39.
.119	.11872	99,3	.99293	11,9	.07452	363,2	.99692	5,2	6 49 05.
0.120	0.11971	99,3	0.99281	12,0	9.07814	360,2	9.99687	5,2	6 52 31.5 6 55 58.6
.12I .122	.12070 .12170	99,3 99,3	.99269 .99257	I2,I I2,2	.08173	357,2 354,2	.99681	5,3 5,3	6 59 24.
.123	.12260	99,3	.99257	12,3	.08881	351,3	.99671	5,4	7 02 50
.124	. 12368	99,2	.99232	12,4	.09231	348,4	.99665	5,4	7 06 16.8
0.125	0.12467	99,2	0.99220	12,5	9.09578	345,6	9.99660	5,5	7 09 43.
.126 .127	.12567	99,2 99,2	.99207	12,6 12,7	.09922	342,9 340,1	.99654	5,5 5,5	7 13 09.5 7 16 35.6
.128	12765	99,2	.99195	12,8	.10204	337,4	.99643	5,6	7 20 OI
.129	.12864	99,2	.99169	12,9	.10938	334,8	.99638	5,6	7 23 28.
0.130	0.12963	99,2 99,1	0.99156	13,0 13,1	9.11272	332,2 329,6	9.99632	5.7 5.7	7 26 54.4 7 30 20.6
.132	.13162	99,1	.99143	13,2	.11003	329,0 327,1	.99020	5,8	7 33 46.9
.133	.13261	99,1	.99117	13,3	.12257	324,6	99615	5,8	7 37 13.2
.134	.13360	99,1	.99104	13,4	.12580	322,2	.99609	5,9	7 40 39.4
0.135 .136	0.13459	99,1 99,1	0.99090	13,5 13,6	9.12901	319,7 317,4	9.99603	5,9 5,9	7 44 05.2 7 47 32.0
.137	.13657	99,1 99,1	.99063	13,7	.13536	315,0	.99591	5,9 6,0	7 50 58.2
.138	.13756	99,0	.99049	13,8	.13850	312,7	.99585	6,0	7 54 24.5
.139	.13855	99,0	.99036	13,9	.14162	310,4	99579	6,1	7 57 50.8
0.140	0.13954	99,0	0.99022	14,0	9.14471	308,2	9.99573	6,1	8 01 17.0
.141	.14053	99,0	.99008 .98993	14,1 14,2	.14778	306,0	99567	6,2	8 04 43.3 8 08 09.6
. I42 . I43	.14152	99,0 99,0	.98979	14,2	.15083	303,8 301,6	.99561 -99554	6,2 6,3	8 11 35.8
. 144	14350	99,0	.98965	14,4	.15686	299,5	.99548	6,3	8 15 02.1
0.145	0.14449	99,0	0.98951	14,4	9.15985	297,4	9.99542	6,3	8 18 28.4
.146 .147	.14548	98,9 98,9	.98936 .98921	14,5 14,6	. 16281 . 16575	295,3 293,3	.99535	6,4 6,4	8 21 54.6 8 25 20.9
.148	.14746	98,9	.98907	14,7	16868	293,3	.99523	6,5	8 28 47.1
.149	.14845	98,9	.98892	14,8	.17158	289,3	.99516	6,5	8 32 13.4
0.150	0.14944	98,9	0.98877	14,9	9.17446	287,4	9.99510	6,6	8 35 39.7
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

1.51	ya e saya ee caa	al a mar in a king half and in managed and			'inoulo	- Å				
0.150				•	Jircuia	r Function	ons.			E 1
0.150				Harriso Sura	_ ; ^1	wheels, would	= /	A STATE OF THE STA	. E /	
0.150	u.	sin u	ω r <sub>0′</sub>	cos u	∞ r <sub>0</sub>	iog sin u	<b>W</b> F0	to the balance	<b>W F</b> 0	u
151			000	0 000	740	0.7746	087.4	1.34 × 1.1	66	8° 35′ 39.72
1.152										8 39 05.99
1.154			98,8	.98847		.18017	283,5	99496	6,7	8 42 32.25
0.155				.98832						8 45 58.52 8 49 24.78
. 156	•154	.15339	90,0	.90017	15,3	10500	2/9,0	.99403		
1.57			98,8						6,8	8 52 51.04
. 158										8 56 17.31 8 59 43.57
0.160				.98754						9 03 09.84
.16i			98,7	.98739	15,8					9 06 36.10
.16i	0.160	0.15032	08.7	0.08723	15.0	9.20227	260,1	9.99442	7,0	9 10 02.37
. 163	. 161	. 16031	98,7	.08707	16,0				7,1	9 13 28.63
.164         .16327         98,7         .98658         16,3         .21290         262,4         .99413         7,2           0.165         0.16425         98,6         0.98642         16,4         9.21551         260,8         9.99406         7,2           .166         .16524         98,6         .98605         16,5         .22811         259,2         .99399         7,3           .167         .16622         98,6         .98505         16,6         .22070         257,6         .99392         7,3           .168         .16721         .98,6         .98595         16,7         .22326         256,1         .99397         7,4           0.170         .16820         98,6         .98575         16,8         .22582         254,5         .99377         7,4           0.170         .16918         98,6         .98527         17,0         .23088         251,5         .99362         7,5           .171         .17017         98,5         .98524         17,1         .23336         250,0         .99354         7,5           .172         .17119         98,5         .98507         17,2         .23588         248,5         .99347         7,6				.98691			205,7			9 16 54.90 9 20 21.16
.166       .16524       98.6       .98625       16.5       .21811       259.2       .99399       7,3         .167       .16622       98.6       .98609       16.6       .22070       257.6       .99392       7,3         .168       .16721       98.6       .98592       16.7       .22326       256.1       .99384       7,4         .169       .16820       98.6       .98592       16.7       .22326       253.0       .99367       7,4         0.170       0.16918       98.6       0.98558       16.9       9.22836       253.0       9.99369       7,5         .171       .17017       98.5       .98542       17,0       .23088       251.5       .99362       7,5         .172       .17115       98.5       .98524       17,1       .23388       250.0       .99354       7,5         .173       .17214       98.5       .98597       17,2       .23588       248.5       .99347       7,6         .174       .17312       98.5       .98490       17,3       .24082       245,6       9.99332       7,7         .174       .17502       98.5       .98455       17,5       .24327       244,2 <td< th=""><td></td><td></td><td></td><td></td><td></td><td></td><td>262,4</td><td></td><td></td><td>9 23 47.43</td></td<>							262,4			9 23 47.43
.166       .16524       98.6       .98625       16.5       .21811       259.2       .99399       7,3         .167       .16622       98.6       .98609       16.6       .22070       257.6       .99392       7,3         .168       .16721       98.6       .98592       16.7       .22326       256.1       .99384       7,4         .169       .16820       98.6       .98592       16.7       .22326       253.0       .99367       7,4         0.170       0.16918       98.6       0.98558       16.9       9.22836       253.0       9.99369       7,5         .171       .17017       98.5       .98542       17,0       .23088       251.5       .99362       7,5         .172       .17115       98.5       .98524       17,1       .23388       250.0       .99354       7,5         .173       .17214       98.5       .98597       17,2       .23588       248.5       .99347       7,6         .174       .17312       98.5       .98490       17,3       .24082       245,6       9.99332       7,7         .174       .17502       98.5       .98455       17,5       .24327       244,2 <td< th=""><td>0.165</td><td>0 16425</td><td>08.6</td><td>0.08612</td><td>76.4</td><td>O OTEST</td><td>260.8</td><td>0.00406</td><td>70</td><td>9 27 13.69</td></td<>	0.165	0 16425	08.6	0.08612	76.4	O OTEST	260.8	0.00406	70	9 27 13.69
.167         .16622         98.6         .98509         16.6         .22070         257.6         .99392         7.3           .168         .16721         98.6         .98595         16.7         .22326         256.1         .99384         7.4           .169         .16820         98.6         .98575         16.8         .222582         254.5         .99377         7.4           0.170         0.16918         98.6         0.98558         16.9         9.22836         253.0         9.99369         7.5           .171         .17017         98.5         .98524         17.0         .23088         251.5         .99362         7.5           .172         .17115         98.5         .98524         17.1         .23338         2250.0         99354         7.5           .173         .17214         98.5         .98490         17.3         .23836         247.1         .99339         7.6           .174         .17312         98.5         .98490         17.3         .23836         247.1         .99339         7.6           .175         .17411         98.5         .98473         17.4         9.24082         245.6         9.99332         7.7										9 30 39.96
.169       .16820       98,6       .98575       16,8       .22582       254,5       .99377       7,4         0.170       0.16918       98,6       0.98558       16,9       9.22836       253,0       9.99369       7,5         .171       .17017       98,5       .98542       17,0       .23088       251,5       .99362       7,5         .172       .17115       98,5       .98597       17,2       .23588       248,5       .99347       7,6         .173       .17214       98,5       .98490       17,3       .23836       247,1       .99339       7,6         .174       .17312       98,5       .98490       17,3       .23836       247,1       .99339       7,6         0.175       0.17411       98,5       .98490       17,3       .23836       247,1       .99332       7,7         .176       .17509       98,5       .98493       17,6       .24570       242,8       .99324       7,7         .177       .17608       98,4       .98420       17,7       .24812       241,4       .99336       7,8         .179       .17805       98,4       .98366       18,0       .25530       23,7 <td< th=""><td></td><td></td><td></td><td></td><td></td><td></td><td>257,6</td><td>.99392</td><td>7,3</td><td>9 34 06.22</td></td<>							257,6	.99392	7,3	9 34 06.22
0.170         0.16918         98.6         0.98558         16.9         9.22836         253,0         9.99369         7,5           .171         .17017         98.5         .98542         17,0         .23088         251,5         .99362         7,5           .172         .17115         98.5         .98524         17,1         .23338         250,0         .99354         7,5           .173         .17214         98.5         .98507         17,2         .23588         248.5         .99347         7,6           .174         .17312         98.5         .98490         17,3         .23836         247,1         .99339         7,6           0.175         0.17411         98.5         .98473         17,4         9.24082         245,6         9.99332         7,7           .176         .17509         98.5         .98455         17,5         .24327         244,2         .99324         7,7           .177         .17608         98.4         .98420         17,7         .24812         241,4         .99306         7,8           .179         .17805         98.4         .98402         17,8         .25532         240,0         .99300         7,9										9 37 32.49 9 40 58.75
171							<b>2</b> 34,3	993//		
172		- 1		0.98558						9 44 25.02
173				08524						9 47 51.28
0.175         0.17411         98,5         0.98473         17,4         9.24082         245,6         9.99332         7,7           .176         .17509         98,5         .98455         17,5         .24327         244,2         .99324         7,7           .177         .17608         98,4         .98438         17,6         .24570         242,8         .99316         7,8           .178         .17706         98,4         .98420         17,7         .24812         241,4         .99308         7,8           .179         .17805         98,4         .98402         17,8         .25053         240,0         .99300         7,9           0.180         0.17903         98,4         .98366         18,0         .25530         237,3         .99285         7,9           .181         .18001         98,3         .98348         18,1         .25767         236,0         .99277         8,0           .182         .18100         98,3         .98312         18,3         .26236         233,4         .99269         8,0           .184         .18296         98,3         .98294         18,4         9.26469         232,1         9.99253         8,1			98,5	.98507		.23588				9 54 43.81
.176       .17509       98.5       .98455       17.5       .24327       244,2       .99324       7,7       17         .177       .17608       98.4       .98438       17.6       .24570       242,8       .99316       7,8       178       .1796       98.4       .98420       17.7       .24812       241,4       .99308       7,8       179       .17805       98.4       .98402       17,8       .25503       240,0       .99300       7,9       179         0.180       0.17903       98.4       .98364       18,0       .25530       237,3       .99285       7,9       181       .18100       98.3       .98366       18,0       .25530       237,3       .99285       7,9       180       .181       .18100       98.3       .98366       18,0       .25530       237,3       .99285       7,9       180       .182       .18100       98.3       .98384       18,1       .25767       236,0       .99277       8,0       .184       .18296       98.3       .98312       18,3       .26236       233,4       .99261       8,1         .184       .18296       98.3       .98294       18,4       9.26469       232,1       9.99253       8,1	174	.17312	98,5	98490	17,3	.23836	247,1	•99339	7,6	9 58 10.08
.177       .17608       98.4       .98438       17.6       .24570       242,8       .99316       7,8       1.178       .17706       98.4       .98420       17.7       .24812       .241.4       .99308       7,8       1.179       .17805       98.4       .98402       17,8       .25053       .240,0       .99300       7,9       1.179       .1805       98.4       .98402       17,8       .25053       .240,0       .99300       7,9       1.181       .18001       98.4       .98366       18,0       .25530       .237,3       .99285       7,9       1.182       .18100       98.3       .98348       18,1       .25767       .236,0       .99277       8,0       .183       .18198       98.3       .98330       18,2       .26002       .234,7       .99269       8,0       .184       .18296       98.3       .98312       18,3       .26236       .233,4       .99261       8,1       .99261       8,1         .0185       0.18395       98.3       .98294       18,4       9.26469       .232,1       9.99253       8,1         .186       .18493       98.3       .98257       18,6       .26931       .29,5       .99236       8,2         .188       .	0.175	0.17411		0.98473	17,4	9.24082	245,6	9.99332	7,7	10 01 36.34
.178       .17706       98.4       .98420       17,7       .24812       241,4       .99308       7,8         .179       .17805       98.4       .98402       17,8       .25053       240,0       .99300       7,9         0.180       0.17903       98.4       .98366       18,0       .25530       237,3       .99285       7,9         .181       .18001       98.4       .98366       18,0       .25530       237,3       .99285       7,9         .182       .18100       98.3       .98348       18,1       .25767       236,0       .99277       8,0         .183       .18198       98.3       .98312       18,3       .26236       233,4       .99261       8,1         .0185       0.18395       98.3       .98294       18,4       9.26469       232,1       9.99253       8,1         .186       .18493       98.3       .98257       18,5       .26701       230,8       .99244       8,2         .187       .18591       98,3       .98257       18,6       .26931       229,5       .99236       8,3         .188       .18689       98,2       .98238       18,7       .27160       228,3 <td< th=""><td></td><td></td><td>98,5</td><td>98455</td><td></td><td></td><td></td><td></td><td>7,7</td><td>10 05 02.61</td></td<>			98,5	98455					7,7	10 05 02.61
0.180									7,8	10 08 28.87 10 11 55.14
.181										10 15 21.40
.181	0.180	0.17003	08.4	0.08384	17.0	0.25202	238.7	0.00203	7.0	10 18 47.67
.183	.181	18001	98,4	.98366	18,0	.25530				10 22 13.93
. 184	.182		98,3							10 25 40.19
.0185	.184		98.3	.08330					8,0 8,1	10 29 06.46 10 32 32.72
.186     .18493     .98.3     .98275     18.5     .26701     230,8     .99244     8.2       .187     .18501     .98.3     .98257     18.6     .26931     .229,5     .90236     8.2       .188     .18680     .98.2     .98238     18.7     .27160     .228,3     .99228     8.3       .189     .18788     .98.2     .98219     18.8     .27387     .227,0     .99220     8.3       0.190     0.18886     .98.2     .08219     18.9     9.27614     .225,8     9.99211     8.4       .191     .18984     .98.2     .98181     19.0     .27839     .224,6     .99203     8.4       .192     .19082     .98.2     .98162     19.1     .28063     .223,4     .99195     8.4       .193     .19180     .98,1     .98143     19,2     .28286     .22,2     .90186     8.5       .194     .19279     .98,1     .98124     19,3     .28507     .221,0     .99178     8.5       0.195     0.19377     .98,1     .98085     19,5     .28947     .218,7     .99160     8.6       .196     .19475     .98,1     .98085     19,5     .28947     .218,7     .99160			1	har said to						
.187     .18591     .98.3     .98257     18.6     .26931     .229.5     .99236     8.2       .188     .18689     .98.2     .98238     18.7     .27160     .228,3     .99228     8.3       .189     .18788     .98.2     .98219     18.8     .27387     .227,0     .99220     8.3       0.190     0.18886     .98.2     0.98200     18.9     9.27614     .225,8     9.99211     8.4       .191     .18984     .98.2     .98181     19.0     .27839     .224,6     .99203     8.4       .192     .19082     .98.2     .98162     19.1     .28063     .223,4     .99193     8.4       .193     .19180     .98,1     .98143     19,2     .28286     .222,2     .99186     8.5       .194     .19279     .98,1     .98124     19,3     .28507     .221,0     .99178     8.5       0.195     0.19377     .98,1     0.98105     19,4     9.28728     .219,9     .99169     8.6       .196     .19475     .98,1     .98085     19,5     .28947     .218,7     .99160     8.6       .197     .19573     .98,1     .98066     19,6     .20165     .217,6     .99152			98,3		18,4					10 35 58.99 10 39 25.25
.188     .18689     .98.2     .98238     18,7     .27160     228,3     .99228     8,3       .189     .18788     98,2     .98219     18,8     .27387     227,0     .99220     8,3       0.190     0.18886     98,2     0.98200     18,9     9.27614     225,8     9.99211     8,4       .191     .18984     98,2     .98181     19,0     .27839     224,6     .99203     8,4       .192     .19682     98,2     .98162     19,1     .28063     223,4     .99195     8,4       .193     .19180     98,1     .98143     19,2     .28286     222,2     .99186     8,5       .194     .19279     98,1     .98124     19,3     .28507     221,0     .99178     8,5       0.195     0.19377     98,1     0.98105     19,4     9.28728     219,9     9.99169     8,6       .196     .19475     98,1     .98085     19,5     .28947     218,7     .99160     8,6       .197     .19573     98,1     .98066     19,6     .20165     217,6     .90152     8,7			98.3	.98257	18,6				8,2	10 42 51.52
0.190     0.18886     98.2     0.98200     18.9     9.27614     225,8     9.99211     8.4       .191     .18984     98.2     .98181     19.0     .27839     224,6     .99203     8.4       .192     .19082     98.2     .98162     19.1     .28063     223,4     .99195     8.4       .193     .19180     98.1     .98143     19.2     .28286     222,2     .99186     8.5       .194     .19279     98.1     .98124     19.3     .28507     221,0     .99178     8.5       0.195     0.19377     98.1     0.98105     19.4     9.28728     219.9     9.99169     8.6       .196     .19475     98.1     .98085     19.5     .28947     218.7     .99160     8.6       .197     .19573     98.1     .98066     19.6     .20165     217.6     .90152     8.7			98,2	.98238	18,7	.27160		.00228	8.3	10 46 17.78
.191     .18984     98.2     .98181     19.0     .27839     224,6     .99203     8,4       .192     .19682     98.2     .98162     19.1     .28063     223,4     .99195     8,4       .193     .19180     98.1     .98143     19.2     .28286     222,2     .99186     8,5       .194     .19279     98.1     .98124     19,3     .28507     221,0     .99178     8,5       0.195     0.19377     98.1     0.98165     19,4     9.28728     219,9     9.99169     8,6       .196     .19475     98.1     .98085     19,5     .28947     218,7     .99160     8,6       .197     .19573     98.1     .98066     19,6     .20165     217,6     .90152     8,7	.189	.18788	98,2	.98219	18,8	.27387	227,0	.99220	8,3	10 49 44.05
.192     .19082     98,2     .98162     19,1     .28063     223,4     .99195     8,4       .193     .19180     98,1     .98143     19,2     .28286     222,2     .99186     8,5       .194     .19279     98,1     .98124     19,3     .28507     221,0     .99178     8,5       0.195     0.19377     98,1     0.98105     19,4     9.28728     210,0     9.99169     8,6       .196     .19475     98,1     .98085     19,5     .28947     218,7     .99160     8,6       .107     .19573     98,1     .98066     19,6     .20165     217,6     .90152     8,7			98,2			9.27614			8,4	10 53 10.31
.193     .19180     98.1     .98143     19.2     .28286     222,2     .99186     8,5       .194     .19279     98.1     .98124     19.3     .28507     221,0     .99178     8,5       0.195     0.19377     98.1     0.98105     19,4     9.28728     210,0     9.99169     8,6       .196     .19475     98.1     .98085     19,5     .28947     218,7     .99160     8,6       .107     .19573     98.1     .98066     19,6     .20165     217,6     .90152     8,7									8,4	10 56 36.58
.194     .19279     98,1     .98124     19,3     .28507     221,0     .99178     8,5       0.195     0.19377     98,1     0.98105     19,4     9.28728     219,9     9.99169     8,6       .196     .19475     98,1     .98085     19,5     .28947     218,7     .99160     8,6       .197     .19573     98,1     .98066     19,6     .20165     217,6     .90152     8,7									8.5	11 00 02.84 11 03 29.11
. 196   .19475   98,1   .98085   19,5   .28947   218,7   .99160   8,6   .197   .19573   98,1   .98066   19,6   .29165   .217,6   .99152   8,7									8,5	11 06 55.37
. 196   .19475   98,1   .98085   19,5   .28947   218,7   .99160   8,6   .197   .19573   98,1   .98066   19,6   .29165   .217,6   .99152   8,7	0.195	0.19377	98,1	0.98105	19,4		219,9	9.99169	8,6	11 10 21.64
.197 .19573 98,1 .98000 19,0 .29105 217,0 .99152 8,7 .198 .19671 98,0 .98046 19,7 .29382 216,5 .99143 8,7 .198 .19671 98,0 .98046 19,7 .29382 216,5 .99143 8,7 .198 .198 .198 .198 .198 .198 .198 .198	.196	.19475	98,1	.98085	19,5		218,7	.99160	8,6	11 13 47.90
190 1907 900 9000 100 2000 200 99143 091									8.7	II 17 14.17 II 20 40.43
1 .199   .19709   96,0   .96020   19,0   .29596   215,3   .99134   6,6	.199	.19769	98,0	.98026	19,8	.29598	215,3	99143	8,8	11 24 06.70
	0.200	0.19867	98,0	0.98007	19,9	9.29813	214,2	9.99126	3	11 27 32.96
υ -isinhiu ω Fo' coshiu ω Fo' log sinhiu ω Fo' log coshiu ω Fo'	u	– i sinh lu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	ů

THE Y

	u	sin u	ω F <sub>0</sub> ′	COB U	" ω <b>F</b> <sub>0</sub> "	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
	2 222	0.19867	98.0	0.98007	700	9.29813	27.12	0 00706	<b>8,</b> 8	11° 27′ 32″.96
	.201	.19965	98,0	97987	19,9 20,0	30027	214,2 213,1	9.99126	8,8	II 2/ 32.90 II 30 59.23
	.202	.20063	98,0	97967	20,1	30239	212,1	.99108	8,9	11 34 25.49
	.203	.20161	97,9	97947	20,2	30451	211,0	99099	8,9	11 37 51.76
	.204	.20259	97,9	97926	20,3	.30661	209,9	.99090	9,0	11 41 18.02
	0.205	0.20357	97,9	0.97906	20,4	9.30871	208,9	9.99081	9,0	11 44 44.29
H	.206	.20455	97,9	.97886	20,5	.31079	207,8	.99072	9,1	11 48 10.55
1	207	.20552	97,9	.97865	20,6	.31286	206,8	.99063	9,1	11 51 36.81
	.208 .209	.20650 .20748	97,8 97,8	.97845 .97824	20,7	.31493 .31698	205,8 204,8	.99054 .99044	9,2 9,2	11 55 03.06
	0.210	0.20846	97,8	0.97803	20,8	9.31902	203,8	9.99035	9,3	12 01 55.61
	.211	.20944	97,8	.97782	20,9	.32106	202,8	.99026	9,3	12 05 21.87
	.212	.21042	97,8	.97761	21,0	.32308	201,8	.99017	9,3	12 08 48.14
1	.213	.21139	97,7	97740	21,1	.32509	200,8	.99007	9,4	12 12 14.40
	.214	.21237	97,7	.97719	21,2	32709	199,8	.98998	9,4	12 15 40.67
	0.215 .216	0.21335	97,7 97,7	0.97698 .97676	21,3 21,4	9.32909	198,9 197,9	9.98988	9,5 9,5	12 19 06.93
	.217	.21530	97,7	.97655	21,5	33305	197,0	98969	9,6	12 25 59.46
	.218	.21628	97,6	.97633	21,6	.33501	196,0	.98960	9,6	12 29 25.73
	.219	.21725	97,6	.97612	21,7	.33697	195,1	.98950	9,7	12 32 51.99
	0.220	0.21823	97,6	0.97590	21,8	9.33891	194,2	9.98940	9,7	12 36 18.26
	.221	.21921	97,6	.97568	21,9	.34085	193,3	98931	9,8	12 39 44.52
	.222	.22018	97,5	97546	22,0	34278	192,4	.98921	9,8 9,8	12 43 10.79 12 46 37.05
7	.223	.22116	97,5 97,5	.97524 .97502	22,1 22,2	.34470 .34661	191,5 190,6	.98911	9,9	12 40 37.05
	0.225	0.22311	97,5	0.97479	22,3	9.34851	189,8	9.98891	9,9	12 53 29.58
-	.226	.22408	97,5	.97457	22,4	.35041	188,9	.98881	10,0	12 56 55.85
5	.227	.22506	97,4	97435	22,5	.35229	188,0	.98871	10,0	13 00 22.11
•	.228	22603	97,4 97,4	.97412	22,5 22,7	.35417	187,2 186,3	.98861	IO, I IO, I	13 03 48.38
•	0.230	0.22798	97,4	0.97367	22,8	9.35789	185,5	9.98841	10,2	13 10 40.91
-	.231	.22895	97,3	•97344	22,9	•35974	184,7	.98831	10,2	13 14 07.17
	.232	.22992	97,3	97321	23,0	36158	183,8	.98821	10,3	13 17 33.44
•	.233	.23090	97,3	.97298	23,1	36342	183,0	.98810	10,3	13 20 59.70
	.234	.23187	97,3	.97275	23,2	.36525	182,2	.98800	10,4	13 24 25.96
1	0.235	0.23284	97,3	0.97251	23,3	9.36706 .36887	181,4	9.98790	10,4	13 27 52.23
ı	.236	.23382	97,2	.97228	23,4	.30007	180,6 179,8	.98779	10,4	13 31 18.49
	.237	.23479	97,2 97,2	.97205	23,5 23,6	37247	179,0	.98758	10,5	13 38 11.02
	.239	.23673	97,2	.97158	23,7	.37426	178,2	.98748	10,6	13 41 37.29
	0.240	0.23770	97,1	0.97134	23,8	9.37603	177,5	9.98737	10,6	13 45 03.55
	.241	.23867	97,1	.97110	23,9	.37780	176,7	.98726	10,7	13 48 29.82
	.242	23964	97,1	.97085	24,0	·37957 .38132	175,9	.98716	10,7	13 51 56.08 13 55 22.35
	.243	.24062	97,1 97,0	.97062 .97038	24,1 24,2	.38307	175,2 174,4	.98694	10,8	13 58 48.61
	0.245	0.24256	97,0	0.97014	24,3	9.38481	173,7	9.98683	10,9	14 02 14.88
	.246	.24353	97,0	.96989	24,4	.38655	173,0	.98672	10,9	14 05 41.14
l	.247	.24450	97,0	.96965	24,4	.38827	172,2	.98662	11,0	14 09 07.41
	.248	.24547 .24643	96,9 96,9	.96941 .96916	24,5 24,6	.38999	171,5 1 <b>70,</b> 8	.98651	11,0	14 12 33.67 14 15 59.94
	0.250	0.24740	96,9	0.96891	24,7	9.39341	170,1	9.98628	11,1	14 19 26.20
-		<u> </u>				log <mark>sinh iu</mark>	'	los es el i	F2	
	u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log i	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> 7	<u>u</u>

Circular Functions.

u	sin u	.ω <b>F</b> <sub>0</sub> ′	cos u	ω <b>F</b> <sub>0</sub> ′	log sin u	ω F₀′	log cos u	ω F <sub>0</sub> ′	and the second
0.050	0.04740	96,9	0.96891	24,7	9.39341	170,1	9.98628	11,1	14 19 26.20
0.250 .251	0.24740	96,9	.96866	24,8	.39510	169,4	.08617	11,1	14 22 52.47
.252	.24934	96,8	.96842	24,9	.39679	168,7	98606	11,2	14 26 18.73
.253	.25031	96,8	.96817	25,0	39848	168.0	.98595	11,2	14 29 45.00
.254	.25128	96,8	.96792	25,1	.40015	167,3	.98584	11,3	14 33 11.26
0.255	0.25225	96,8	0.95766	25,2	9.40182	166,6	9.98572	11,3	14 36 37.53
.256	.25321	96,7	.96741	25,3	.40349	165,9	.98561	11,4	14 40 03.79
.257	.25418	96,7	.96716	25,4	40514	165,2	.98550	11,4	14 43 30.06
.258	.25515	96,7 96,7	.96690 .96665	25,5 25,6	.40679	164,6 163,9	.98538	11,5 11,5	14 46 56.32 14 50 22.58
0,260	0.25708	96,6	0.96639	25,7	9.41007	163,3	9.98515	11,6	14 53 48.85
.261	.25805	96,6	.96613	25,8	.41170	162,6	.98504	11,6	14 57 15.11
.262	.25901	96,6	.96587	25,9	.41332	162,0	.98492	11,6	15 00 41.38
.263	.25998	96,6	.96561	26,0	.41494	161,3	.98480	11,7	15 04 07.64
.264	.26094	96,5	.96535	26,I	.41655	160,7	.98469	11,7	15 07 33.91
0.265 .266	0.26191 .26287	96,5 96,5	0.96509	26,2 26,3	9.41815	160,0 159,4	9.98457 .98445	11,8 11,8	15 11 00.17 15 14 26.44
.267	.26384	96,5	.96457	26,4	.41975	158,8	.98433	11,0	15 17 52.70
.268	.26480	96,4	.96430	26,5	.42292	158,2	.98421	11,9	15 21 18.97
.269	.26577	96,4	.964 <b>0</b> 4	26,6	42450	157,5	.98409	12,0	15 24 45.23
0.270	0.26673	96,4	0.96377	26,7	9.42607	156,9	9.98397	12,0	15 28 11.50
.271	.26770	96,4	.96350	26,8	.42764	156,3	.98385	12,1	15 31 37.76
.272	.26866	96,3	.96324	26,9	.42920	155,7	.98373	12,1	15 35 04.03
.273	.26962	96,3	.96297	27,0	•43075	155,1	.98361	12,2	15 38 30.29
.274	.27058	96,3	.96270	27,1	.43230	154,5	.98349	12,2	15 41 56.56
0.275	0.27155	96,2	0.96243	27,2	9.43384	153,9	9.98337	12,3	15 45 22.82
.276	.27251	96,2	.96215	27,3	43538	153,3	.98324	12,3	15 48 49.00
.277	.27347	96,2	.96188	27,3	.43691	152,8	.98312	12,3	15 52 15.35
.278	.27443	96,2	.96161	27,4	43844	152,2 151,6	.98300	12,4 12,4	15 55 41.62 15 59 07.88
.279	.27539	96,1		27,5	.43996			and the second	
0.280	0.27636	96,1	0.96106	27,6	9.44147	151,0	9.98275	12,5	16 02 34.15
.281	.27732	96,1	96078	27.7	44298	150,5	.98262	I2,5	16 06 00.41
.282	.27828	96,1 96,0	.96050	27,8 27,9	·44448 ·44597	149,9	.98250	12,6 12,6	16 09 26.68 16 12 52.94
.284	.28020	96,0	95994	28,0	.44746	148,8	.98225	12,7	16 16 19.20
0.285	0.28116	96,0	0.95966	28,1	9.44895	148,2	9.98212	12,7	16 19 45.47
.286	.28212	95,9	.95938	28,2	.45043	147,7	.98199	12,8	16 23 11.73
.287	.28308	95,9	.95910	28,3	.45190	147,1	.98186	12,8	16 26 38.00
.288	.28404	95,9 95,9	.95881 .95853	28,4 28,5	·45337 ·45484	146,6 146,1	.98173	12,9 12,9	16 30 04.26 16 33 30.53
0.290	0.28595	95,8	0.95824	28,6	9.45629	145,5	9.98148	13,0	16 36 56.79
.291	.28691	95,8	.05706	28.7	•45775	145,0	.98135	13,0	16 40 23.00
.292	.28787	95,8	.95767	28,8	.45919	144,5	.98122	13,1	16 43 49.32
.293	.28883	95,7	.95738	28,9	.46064	144,0	.98109	13,1	16 47 15.59
.294	.28978	95,7	.95709	29,0	.46207	143,4	.98095	13,1	16 50 41.85
0.295	0.29074	95,7	0.95680	29,1	9.46350	142,9	9.98082	13,2	16 54 08.12
.296	.29170	95,7	.95651	29,2	.46493	142,4	.98069	13,2	16 57 34.38 17 01 00.6
297	29265	95,6	.95622	29,3	46635	141,9	.98056	13,3	17 01 00.03
.298 .299	.29361 .29456	95,6 95,6	•95593 •95563	29,4 29,5	·46777 ·46918	141,4 140,9	.98042	13,3 13,4	17 04 20.91
0.300	0.29552	95,5	0.95534	29,6	9.47059	140,4	9.98016	13,4	17 11 19.44
u	-i sinh iu	ω F <sub>0</sub> '	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh lu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u'.

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u	sin u	ω F <sub>0</sub> ′	cos u	∞ F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.300	0.29552	95,5	0.95534	29,6	9.47059	140,4	9.98016	13,4	17 11 19.44
.301	.29648	95,5	.95504	29,6	.47199	139,9	.98002	13,5	17 14 45.71
.302	.29743	95,5	•95474	29,7	•47339	139,4	.97989	13,5	17 18 11.97
.303	.29838	95,4	•95445	29,8	.47478	138,9	97975	13,6	17 21 38.24
.304	.29934	95,4	•95415	29,9	.47616	138,4	.97962	13,6	17 25 04.50
0.305	0.30029	95,4	0.95385	30,0	9.47755	137,9	9.97948	13,7	17 28 30.77
.306	.30125	95,4	•95355	30,1	.47892	137,5	•97934	13,7 13,8	17 31 57.03
.307	.30220	95,3	.95324 .95294	30,2	.48029 .48166	137,0	.97920	13,8	17 35 23.30
.308	30315	95,3 95,3	.95264	30,3 30,4	.48303	136,5 136,0	.97907 .97893	13,9	17 38 49.56 17 42 15.83
0.310	0.30506	95,2	0.95233	30,5	9.48438	135,6	9.97879	13,9	17 45 42.09
.311	.30601	95,2	.95203	30,6	.48574	135,1	.97865	14,0	17 49 08.35
.312	.30696	95,2	.95172	30,7	.48709	134,7	.97851	14,0	17 52 34.62
.313	.30791	95,1	.95141	30,8	48843	134,2	97837	14,1	17 56 00.88
•314	.30887	95,1	.95111	30,9	.48977	133,7	.97823	14,1	17 59 27.15
0.315	0.30982	95,1	0.95080	31,0	9.49110	133,3	9.97809	14,2	18 02 53.41
.316	.31077	95,0	.95049 .95017	31,1 31,2	49244	132,8	.97795 .97780	I4,2 I4,2	18 of 19.68 18 of 45.94
.317	.31172 .31267	95,0 95,0	.94986	31,3	.49376 .49508	132,4 131,9	.97766	14,2	18 13 12.21
319	.31362	95,0	94955	31,4	.49540	131,5	.97752	14,3	18 16 38.47
0.320	0.31457	94,9	0.94924	31,5	9.49771	131,1	9.97737	14,4	18 20 04.74
.321	.31552	94,9	.94892	31,6	.49902	130,6	.97723	14,4	18 23 31.00
.322	.31646	94,9	.94860	31,6	.50032	130,2	.97709	14,5	18 26 57.27
.323	31741	94,8	.94829	31,7	.50162	129,7	97694	14,5	18 30 23.53
.324	.31836	94,8	•94797	31,8	.50292	129,3	97679	14,6	18 33 49.80
0.325	0.31931	94,8	0.94765	31,9	9.50421	128,9	9.97665	14,6	18 37 16.06
.326	.32026	94,7	•94733	32,0	.50550	128,5	97650	14,7	18 40 42.33
•327	.32120	94,7	.94701	32,1	.50678	128,0	.97635	14,7	18 44 08.59
.328	.32215	94,7	.94669	32,2	.50806	127,6	.97621	14,8	18 47 34.86
329	.32310	94,6	.94637	32,3	.50933	127,2	.97606	14,8	18 51 01.12
0.330	0.32404	94,6	0.94604	32,4	9.51060	126,8	9.97591	14,9	18 54 27.39
·33 <sup>I</sup>	.32499	94,6	.94572	32,5	.51187	126,4	.97576	14,9	18 57 53.65
.332	.32593	94,5	•94539	32,6	.51313	126,0	.97561	15,0	19 01 19.92
·333 ·334	.32688	94,5 94,5	.94507 .94474	32,7 32,8	.51439 .51564	125,6 125,2	.97546 .97531	15,0 15,1	19 04 40.18
0.335	0.32877	94,4	0.94441	32,9	9.51689	124,8	9.97516	15,1	19 11 38.71
.336	.32971	94,4	.94408	33,0	.51814	124,4	.97501	15,2	19 15 04.97
•337	.33066	94,4	94375	33,1	.51938	124,0	97486	15,2	19 18 31.24
.338	.33160	94,3	.94342	33,2	.52062	123,6	.97470	15,3	19 21 57.50
•339	•33254	94,3	.94309	33,3	.52185	123,2	•97455	15,3	19 25 23.77
0.340	0.33349	94,3	0.94275	33,3	9.52308	122,8	9.97440	15,4	19 28 50.03
.341	•33443	94,2	.94242	33,4	.52430	122,4	97424	15,4	19 32 16.30
.342	•33537	94,2	.94209	33,5	•52553	122,0	.97409	15,5	19 35 42.56
•343	.33631	94,2	·94175	33,6	.52674	121,6	•97394	15,5	19 39 08.83
•344	.33726	94,1	.94141	33,7	.52796	121,2	.97378	15,6	19 42 35.09
0.345	0.33820	94,1	0.94108	33,8	9.52917	120,8	9.97362	15,6	19 46 01.36
.346	.33914	94,1	.94074	33,9	.53038	120,5	•97347	15,7	19 49 27.62
•347	.34008	94,0	.94040	34,0	.53158	120,1	.97331	15,7	19 52 53.89 19 56 20.15
.348 .349	.34102 .34196	94,0 94,0	.94006 .93972	34,1 34,2	.53278 .53397	119,7	.97315	15,8 15,8	19 50 20.15
0.350	0.34290	93,9	0.93937	34,3	9.53516	119,0	9.97284	15,9	20 03 12.68
u	– I sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω Fo'	log cosh iu	ω F <sub>0</sub> ′	u

и	sin u	ω <b>F</b> <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> /′	gar kanan dan sa dan sa saga ya
		<del>- in State</del>	A CONTRACTOR OF THE PARTY OF TH	The second of the	Park (24) 76 97 1				
0.350	0.34290	93,9	0.93937	34,3	9.53516	119,0	9.97284	15,9	20 03 12.68
.351	.34384	93,9	.93903	34,4	.53635	118,6	.97268	15,9	20 os 38.95
.352	.34478	93,9	.93869	34.5	-53754	118,2	.97252	16,0	20 10 05.21
•353	.34571	93,8	.93834	34,6	.53872	117,9	.97236	16,0	20 13 31.48
∙354	.34665	93,8	•93799	34,7	.53989	117,5	.97220	16,1	<b>20</b> 16 57.74
0.355	0.34759	93,8	0.93765	34,8	9.54107	117,2	9.97204	16,1	20 20 24.01
.356	34853	93,7	.93730	34,9	.54224	116,8	.97188	16,1	20 23 50.27
-357	.34946	93,7	.93695	34,9	.54340	116,4	.97172	16,2	20 27 16.54
.358	.35040	93,7	.93660	35,0	•54457	116,1	.97155	16,2	20 30 42.80
•359	•35134	93,6	.93625	35,1	•54573	115,7	.97139	16,3	20 34 09.07
0.360	0.35227	93,6	0.93590	35,2	9.54688	115,4	9.97123	16,3	20 37 35 33
.361	.35321	93,6	•93554	35,3	.54803	115,0	.97106	16,4	20 41 01.60
.362	-35415	93,5	.93519	35,4	.54918	114,7	.97090	16,4	20 44 27.86
.363	.35508	93,5	.93484	35,5	.55033	114,3	.97074	16,5	20 47 54.12
.364	.35601	93,4	.93448	35,6	•55147	114,0	.97057	16,5	20 51 20.39
0.365	0.35695	93,4	0.93412	35.7	9.55261	113,7	9.97040	16,6	20 54 46.65
.366	.35788	93,4	•93377	35,8	•55374	113,3	.97024	16,6	20 58 12.92
.367	.35882	93,3	.93341	35,9	.55487	113,0	.97007	16,7	21 01 39.18
.368	-35975	93,3	•93305	36,0	.55600	112,6	.96990	16,7	21 05 05.45
.369	.36068	93,3	.93269	36,1	•55713	112,3	.96974	16,8	21 08 31.71
0.370	0.36162	93,2	0.93233	36,2	9.55825	112,0	9.96957	16,8	21 11 57.98
.371	.36255	93,2	.93197	36,3	55937	111,6	.96940	16,9	21 15 24.24
.372	.36348	93,2	.93160	36,3	.56048	111,3	.96923	16,9	21 18 50.51
373	.36441	93,1	.93124	36,4	.56159	111,0	.96906	17,0	21 22 16.77
•374	.36534	93,1	.93087	36,5	.56270	110,7	.95885	17,0	21 25 43.04
0.375	0.36627	93,1	0.93051	36,6	9.56380	110,3	9.96872	17,1	21 29 09.30
.376	.36720	93,0	.93014	36,7	.56491	110,0	.95855	17,1	21 32 35.57
-377	.36813	93,0	.92977	36,8	.56600	109,7	.96838	17,2	21 36 01.83
.378	.36906	92,9	.92940	36,9	.56710	109,4	.96820	17,2	21 39 28.10
•379	36999	92,9	.92904	37,0	.56819	109,0	.96803	17,3	21 42 54.36
0.380	0.37092	92,9	0.92866	37,1	9.56928	108,7	9.96786	17,3	21 46 20.63
.381	.37185	92,8	.92829	37,2	57037	108,4	.96769	17,4	21 49 46.89
.382	.37278	92,8	.92792	37,3	.57145	108,1	.96751	17,4	21 53 13.16
383	37370	92,8	.92755	37,4	.57253	107,8	.96734	17,5	21 56 39.42
.384	.37463	92,7	.92717	37,5	.57361	107,5	.96716	17,5	22 00 05.69
0.385	0.37556	92,7	0.92680	37,6	9.57468	107,2	9.96699	17,6	22 03 31.95
.386	.37649	92,6	.92642	37,6	•57575	106,9	.96681	17,6	22 06 58.22
.387	37741	92,6	.92605	37,7	.57682	106,6	.96663	17,7	22 10 24 48
.388	.37834	92,6	.92567	37,8	.57788 .57894	106,3	.96646	17,8 17,8	22 13 50.74 22 17 17.01
.389	.37926	92,5	.92529	37,9		100,0	.90020	17,0	22 17 17.31
0.390	0.38019	92,5	0.92491	38,0	9.58000	105,7	9.96610	17,9	22 20 43.27
391	.38111	92,5	.92453	38,1	.58105	105,4	.96592	17,0	22 24 09 54
392	.38204	92,4	.92415	38,2	.58211	105,1	.96574	18,0	22 27 35 80
393	.38296	92,4	.92376	38,3	.58316	104,8	.96556	18,0	22 31 02.07
•394	.38389	92,3	.92338	38,4	.58420	104,5	.96538	18,1	22 34 28.33
0.395	0.38481	92,3	0.92300	38,5	9.58524	104,2	9.96520	18,1	22 37 54.60 22 41 20.86
.396	38573	92,3	.92261	38.6	.58628	103,9	.96502	18,2	22 41 20.86
•397	38665	92,2	.92223	38,7 38,8	.58732	103,6	.96484	18,2	22 44 47.13
.398	.38758	92,2	.92184	38,8	.58836	103,3	.96465	18,3	22 48 13.39
•399	.38850	92,1	.92145	38,8	.58939	103,0	.96447	18,3	22 51 39.66
0.400	0.38942	92,1	0.92106	38,9	9.59042	102,7	9.96429	18,4	22 55 05.92
u	-1 sinh iu	₩ Fo'	cosh lu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u
<u> </u>	gan mesagar	J							

Ī			-/	1	F,	las ele u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	1 .
1	u	sin u	ω F₀′	cos u	ω F <sub>0</sub> ′	log sin u	₩ F <sub>0</sub>	log cos u	ω Γο	u
		0		6	-0.0	0 50010	700 =	9.96429	18,4	22 55 05.92
	0.400 .401	0.38942	92,I 92,I	0.92106 .92067	38,9 39,0	9.59042 59144	102,7 102,4	9.90429	18,4	22 58 32.19
l	.402	.39126	92,0	.92007	39,1	59247	102,2	.96392	18,5	23 01 58.45
ļ	.403	.39218	92,0	.91989	39,2	59349	101,9	.96374	18,5	23 05 24.72
1	.404	.39310	91,9	.91950	39,3	59450	101,6	.96355	18,6	23 08 50.98
l	0.405	0.39402	91,9	0.91910	39,4	9.59552	101,3	9.96336	18,6	23 12 17.25
l	.406	39494	91,9	.91871	39,5	59653	101,0	.96318	18,7	23 15 43.51
1	,407	39586	91,8	.91831	39,6	•59754	100,7	.96299	18,7	23 19 09.78
	.408	.39677	91,8	.91792	39,7	.59854	100,5	.96280	18,8	23 22 36.04
	.409	.39769	91,8	.91752	39,8	•59955	100,2	.96262	18,8	23 26 02.31
	0.410	0.39861	91,7	0.91712	39,9	9.60055	99,9	9.96243	18,9	23 29 28.57
	.411	•39953	91,7	.91672	40,0	.60155	99,6	.96224	18,9	23 32 54.84
١	.412	.40044	91,6	.91632	40,0	.60254	99,4	.96205	19,0	23 36 21.10
l	.413	.40136	91,6	.91592	40,1	.60353	99,1 98,8	.96186	19,0	23 39 47.36
1	.414	.40227	91,6	.91552	40,2	.60452		.96167	19,1	23 43 13.63
	0.415	0.40319	91,5	0.91512	40,3	9.60551	98,6	9.96148	19,1	23 46 39.89
1	416	.40410	91,5	.91471	40,4	.60649	98,3 98,0	.96128	19,2 19,2	23 50 06.16 23 53 32.42
1	.417 .418	.40502	91,4 91,4	.91431	40,5 40,6	.60845	95,8	.96090	19,3	23 56 58.69
١	.419	.40685	91,3	.91350	40,7	.60943	97,5	.96071	19,3	24 00 24.95
1	0.420	0.40776	91,3	0.91309	40,8	9.61041	97,3	9.96051	19,4	24 03 51.22
1	.421	.40867	91,3	.91268	40,9	.61138	97,0	.96032	19,4	24 07 17.48
1	.422	40959	91,2	.91227	41,0	.61234	96,7	.96012	19,5	24 10 43.75
١	.423	.41050	91,2	.91186	41,0	.61331	96,5	•95993	19,6	24 14 10.01
	.424	.41141	91,1	.91145	41,1	.61427	96,2	•95973	19,6	24 17 36.28
l	0.425	0.41232	91,1	0.91104	41,2	9.61524	96,0	9.95954	19,7	24 21 02.54
ı	.426	.41323	91,1	.91063	41,3	.61619	95,7	•95934	19,7	24 24 28.81
1	.427	.41414	91,0	.91021	41,4	.61715 .61810	95,5	.95914	19,8	24 27 55.07
	.428 .429	.41505 .41596	91,0 90,9	.90980 .90938	41,5 41,6	.61905	95,2 94,9	.95894	19,8	24 31 21.34 24 34 47.60
	0 400	0.41687	00.0	0.90897	4.7.5	9.62000		9.95855	<b>TO 0</b>	24 38 13.87
	0.430 .43I	.41778	90,9	.90855	41,7 41,8	62005	94,7 94,4	.95835	19,9 20,0	24 41 40.13
	.432	.41869	90,8	.90813	41,9	.62189	94,2	.95815	20,0	24 45 06.40
	•433	.41960	90,8	90771	42,0	.62283	94,0	95795	20,1	24 48 32.66
	•434	.42050	90,7	.90729	42,1	.62377	93,7	95775	20,1	24 51 58.93
1	0.435	0.42141	90,7	0.90687	42,I	9.62471	93,5	9.95755	20,2	24 55 25.19
1	.436	.42232	90,6	.90645	42,2	.62564	93,2	•95734	20,2	24 58 51.46
1	•437	.42322	90,6	.90603	42,3	.62657	93,0	.95714	20,3	25 02 17.72
1	.438	.42413	90,6	.90560	42,4	.62750 .62842	92,8	.95694	20,3	25 05 43.99 25 09 10.25
	•439	.42503	90,5	.90518	42,5		92,5	95673	20,4	
1	0.440	0.42594	90,5	0.90475	42,6	9.62935	92,2	9.95653	20,4	25 12 36.51
1	441	.42684	90,4	.90433	42,7	.63027	92,0	.95632	20,5	25 16 02.78
1	.442	.42775	90,4	.90390	42,8	.63119	91,8	.95612	20,6	25 19 29.04
	· 443 · 444	.42865 .42956	90,3 90,3	.90347 .90304	42,9 43,0	.63210	91,5 91,3	.95591	20,0 20,7	25 22 55.31 25 26 21.57
-					a 44					
	0.445	0.43046	90,3	0.90261	43,0	9.63393	91,1	9.95550	20,7	25 29 47.84
1	.446	.43136	90,2	.90218	43,1	63484	90,8	.95529	20,8 20,8	25 33 14.10
1	•447 •448	.43226 .43316	90,2 90,1	.90175 .90132	43,2 43,3	.63575 .63665	90,6 90,4	.65488	20,8	25 36 40.37 25 40 06.63
-	•449	.43310	90,1	.90088	43,4	.63755	90,4 90,1	.95467	20,9	25 43 32.90
	0.450	0.43497	90,0	0.90045	43,5	9.63845	89,9	9.95446	21,0	25 46 59.16
	u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> '	
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u	sin u	ω F <sub>0</sub> /	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω <b>F</b> <sub>0</sub> ′	u
0.450	0.43497	90,0	0.90045	43,5	9.63845	89,9	9.95446	21,0	25 46 59.16
.451	.43587	90,0	,ç000İ	43,6	.63935	89,7	95425	21,0	25 50 25.43
.452	.43677	90,0	.89958	43,7 43,8	.64025	89,4	95404	21,1	25 53 51.69
•453	.43766	89,9	.89914	43,8	.64114	89,2	.95383	21,1	25 57 17.96
•454	.43856	89,9	.89870	43,9	.64203	89,0	.95361	21,2	26 00 44.22
0.455	0.43946	89,8	0.89826	43,9	9.64292	88,8	9.95340	21,2	26 04 10.49
.456	.44036	89,8	.89782	44,0	.64381	88,5	.95319	21,3	26 07 36.75
•457	.44126	89.7	.89738	44,1	.64469	88,3	.95298	21,4	26 11 03.02
.458	.44216	89.7	.80694	44,2		88,1	.95276	21,4	26 14 29.28
•459	.44305	89,6	.89650	44,3	.64645	87,9	.95255	21,5	26 17 55.55
0.460	0.44395	89,6	0.89605	44,4	9.64733	87,7	9.95233	21,5	26 21 21.81
.461	.44484	89,6	.89561	44,5	.64821	87,4	.95212	21,6	26 24 48.08
.462	•44574	89,5	.89516	44,6	.64908	87,2	.95190	21,6	26 28 14.34
.463	.44663	89,5	.89472	44,7	.64995	87,0	.95169	21,7	25 31 40.61
.464	44753	89,4	.89427	44,8	.65082	86,8	.95147	21,7	26 35 06.87
0.465	0.44842	89,4	0.89382	44,8	9.65169	<b>8</b> 6,6	9.95125	21,8	26 38 33.13
.466	.44932	89,3	.89337	44,9	.65255	86,4	.95103	21,8	26 41 59.40
.467	.45021	89,3	.89292	45,0	.65341	86,1	.95081	21,9	25 45 25.66
468	.45110	89,2	.89247	45,1	.65428	85,9	.95059	22,0	26 48 51.93
.469	.45199	89,2	.89202	45,2	.65513	85,7	95037	22,0	26 52 18.19
0.470	0.45289	89,2	0.89157	45,3	9.65599	85,5	9.95015	22,1	26 55 44.46
.471	45378	89,1	.80111	45,4	.65684	85,3	94993	22,I	26 59 10.72
.472	.45467	89,1	.89066	45,5	.65769	85,1	.94971	22,2	27 02 36.99
.473	.45556	89,0	.89021	45,6	.65854	84,9	.94949	22,2	27 06 03.25
•474	.45645	89,0	.88975	45,6	.65939	84,7	.94927	22,3	27 09 29.52
0.475	0.45734	88,9	0.88020	45,7	9.66024	84,4	9.94904	22,3	27 12 55.78
.476	.45823	88,9	.88883	45,8	.66108	84,2	.94882	22,4	27 16 22.05
.477	.45912	88,8	.88838	45,9	.66192	84,0	.94860	22,4	27 19 48.31
.478	40000	88.8	.88792	45,9 46,0	.66276	83.8	.94837	22,5	27 23 14.58
•479	.46089	88,7	.88746	46,1	.66360	83,6	.94815	22,6	27 26 40.84
0.480	0.46178	88,7	0.88699	46,2	9.66443	83,4	9.94792	22,6	27 30 07.11
.481	.46267	88,7	.88653	46,3	.66527	83,2	.94769	22,7	27 33 33.37
.482	.46355	88,6	.88507	46,4	.66510	83,0	-94747	22.7	27 36 59.64
.483	.46444	88,6	88561	46,4	.66693	82,8	.94724	22,8	27 40 25.90
.484	.46532	88,5	.88514	46,5	.66775	82,6	•94 <b>7</b> 01	22,8	27 43 52.17
0.485	0.46621	88,5	0.88467	46,6	9.66858	82,4	9.94678	22,9	27 47 18.43
.486	46709	88,4	.88421	46,7	.66940	82,2	.94655	22,9	27 50 44.70
.487	.46798	-88.4	.88374	46,8	.67022	82,0	.94633	23,0	27 54 10.96 27 57 37.23
.488	.46886	88.3	.88327	46,9	.67104	81,8	.94609	23,1	
489	.46974	88,3	.88280	47,0	.67186	81,6	.94586	23,1	28 01 03.49
0.490	0.47063	88,2	0.88233	47,1	9.67268	81,4	9.94563	23,2	28 04 29.76
.491	.47151	88,2	.88186	47,2	.67349	81,2	.94540	23,2	28 07 56.02 28 11 22.28
.492	47239	88. T	.88139	47,2	.67430	81,0	94517	23,3	28 11 22.28
.493	.47327	88,1	.88092	47,3	.67511	80,8	.94493	23,3	28 14 48.55
•494	.47415	88,0	.88044	47,4	.67592	80,6	.94470	23,4	28 18 14.81
0.495	0.47503	88,0	0.87997	47,5	9.67672	80,5	9.94447	23,4	28 21 41.08
.496	.47591	87,9	.87949	47,6	.67753	80,3	.94423	23,5	28 25 07.34
497	.47679	87,9	.87002	47,7	.67833	80,1	.94400	23,6	28 28 33.61
.498	.47767	87,9	.87854	47,8	.67913	79,9	.94376	23,6	28 31 59.87
•499	.47855	87,8	.87806	47,9	.67993	79,7	.94352	23,7	28 35 26.14
0.500	0.47943	87,8	0.87758	47,9	9.68072	79,5	9.94329	23,7	28 38 52.40
u	-i sinh iu	ω Fo'	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u
u	1 , 9,,,,,,,,,,	- ''			ion pro-			J v	1

0.505										
.501 .48030 87,7 .87662 48,1 .68152 79,3 .94305 23,8 .88 42 18.6 .502 .4818 87,7 .87662 48,1 .68310 78,0 .94257 23,9 .28 49 11504 .48293 87,6 .87664 48,2 .68310 78,0 .94257 23,9 .28 49 11504 .48293 87,6 .87664 48,3 .68830 78,7 .94233 24,0 .85 23 77504 .48293 87,6 .87669 48,3 .68830 78,7 .94233 24,0 .85 23 77505 .48168 87,5 .87469 48,5 .68846 78,4 .94185 24,1 .28 59 20.4 .509 .48468 87,5 .87469 48,5 .68846 78,4 .94185 24,1 .28 59 20.4 .509 .48438 87,5 .87469 48,6 .686702 78,6 .94137 24,1 .29 02 56508 .48043 87,4 .87372 48,6 .686702 78,6 .94137 24,2 .20 02 56508 .48043 87,4 .87372 48,6 .68702 78,6 .94137 24,2 .20 02 48509 .48730 87,3 .87323 48,7 .68788 77,8 .94113 24,2 .20 09 48511 .48905 87,2 .87127 49,0 .69013 77,3 .94040 24,4 .20 20 07511 .49006 87,1 .87128 49,1 .69000 77,1 .94010 24,4 .20 20 07513 .49079 87,1 .87128 49,1 .69000 77,1 .94010 24,4 .20 20 07514 .49166 87,1 .87028 49,2 .69167 76,9 .93301 24,5 .20 27 00515 0.49253 87,0 .86980 49,3 .60320 76,4 .93017 24,5 .20 27 00515 0.49253 88,0 .86980 49,3 .60320 76,4 .93017 24,5 .20 27 00515 0.49253 88,0 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .521 .49775 86,7 .86732 49,9 .69625 75,3 .93703 25,0 .20 54 30521 .49775 86,7 .86732 49,9 .69625 75,3 .93703 25,0 .20 54 30523 .49048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 54 30523 .49048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 57 56.4 .524 .50035 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 57 56.4 .524 .50035 86,6 .86882 49,9 .69777 73,4 .99603 25,2 .30 01 22,5 .524 .50035 86,6 .86882 49,9 .69777 74,8 .99603 25,2 .30 01 22,5 .524 .50035 86,6 .86882 50,0	u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
.501 .48030 87,7 .87662 48,1 .68152 79,3 .94305 23,8 .88 42 18.6 .502 .4818 87,7 .87662 48,1 .68310 78,0 .94257 23,9 .28 49 11504 .48293 87,6 .87664 48,2 .68310 78,0 .94257 23,9 .28 49 11504 .48293 87,6 .87664 48,3 .68830 78,7 .94233 24,0 .85 23 77504 .48293 87,6 .87669 48,3 .68830 78,7 .94233 24,0 .85 23 77505 .48168 87,5 .87469 48,5 .68846 78,4 .94185 24,1 .28 59 20.4 .509 .48468 87,5 .87469 48,5 .68846 78,4 .94185 24,1 .28 59 20.4 .509 .48438 87,5 .87469 48,6 .686702 78,6 .94137 24,1 .29 02 56508 .48043 87,4 .87372 48,6 .686702 78,6 .94137 24,2 .20 02 56508 .48043 87,4 .87372 48,6 .68702 78,6 .94137 24,2 .20 02 48509 .48730 87,3 .87323 48,7 .68788 77,8 .94113 24,2 .20 09 48511 .48905 87,2 .87127 49,0 .69013 77,3 .94040 24,4 .20 20 07511 .49006 87,1 .87128 49,1 .69000 77,1 .94010 24,4 .20 20 07513 .49079 87,1 .87128 49,1 .69000 77,1 .94010 24,4 .20 20 07514 .49166 87,1 .87028 49,2 .69167 76,9 .93301 24,5 .20 27 00515 0.49253 87,0 .86980 49,3 .60320 76,4 .93017 24,5 .20 27 00515 0.49253 88,0 .86980 49,3 .60320 76,4 .93017 24,5 .20 27 00515 0.49253 88,0 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .518 .49514 86,9 .86881 49,5 .60320 76,4 .93017 24,7 .20 37 18,5 .521 .49775 86,7 .86732 49,9 .69625 75,3 .93703 25,0 .20 54 30521 .49775 86,7 .86732 49,9 .69625 75,3 .93703 25,0 .20 54 30523 .49048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 54 30523 .49048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 54 30523 .50048 86,6 .86882 49,9 .696777 75,5 .93703 25,0 .20 57 56.4 .524 .50035 86,6 .86882 49,9 .69777 75,5 .93703 25,0 .20 57 56.4 .524 .50035 86,6 .86882 49,9 .69777 73,4 .99603 25,2 .30 01 22,5 .524 .50035 86,6 .86882 49,9 .69777 74,8 .99603 25,2 .30 01 22,5 .524 .50035 86,6 .86882 50,0	0.500	0.47043	87.8	0.87758	47.0	0.68072	70.5	0.04320	23.7	28°38′52″4
.5024818 8 87,78766248168231 79,1 .94281 23,8 .28 45 44.950348208 87,68761448268301 78,0 .942573928 49.11 .50448203 87,68756648368389 78,79423324,028 5.237  0.5054838187,58740948568647 78,79423324,028 5.237  0.5064846887,58740948568644 78,49418524,129 0.2 56508480438742148,668624 78,29416124,129 0.2 5650848043874248,668624 78,29416124,129 0.2 56509487308732348,768780 77,89413724,220 0.6 225014831887,38732348,768780 77,89413724,220 0.6 225124890287,2871274906603377,59406424,320 1647.55134907687128491.16900077,19401624,42020205134907687128491.16900077,19401624,4202020516493408608049,36032076,69304224,62033517494428608608049,36032076,69304224,62033517494428608608149,569473694736947376,29380324,820205184951486,08688149,56947376,29380324,820496888688858249,66954976,09384224,020205224986186,8868249,96070175,79381824,9205234986886,8868249,96070175,79381824,9205234986886,8868249,06072175,29373425,120205255012186,58663250,09082775,29373425,1205245003586,68653250,19700275,09381824,920533506408638150,69034274,09305025,22052,2500408638150,69062575,39370325,22052,2500408608150,69062575,39370325,22020			87.7		48.0					
.593			87.7		18.T					28 45 44.0
.504         .48293         87,6         .87566         48,3         .68389         78,7         .04233         24,0         28 52 37.4           0.505         0.48381         87,5         0.87517         48,4         9,68467         78,6         9,04209         24,0         28 56 03.2           .506         .48468         87,4         .87421         48,6         .68524         78.2         .94137         24,1         29 02 56.2           .508         .48431         87,4         .87421         48,6         .68624         78.2         .94137         24,2         20 62 22.2           .509         .48703         87,3         .87323         48,6         .68768         77,6         .94089         24,3         20 13 15.6           .511         .48005         87,2         .87127         49,0         .68935         77,5         .94042         24,3         20 13 15.6           .511         .49058         87,2         .87128         49,1         .68031         77,5         .94042         24,4         20 20 33 3.8           .512         .48902         87,6         .87028         49,2         .69167         76,9         .93072         24,4         20 20 33 3.8										
.505         .48458         87.5         .87469         48.5         .68624         78.4         .04185         24.1         29.02         50.2         .508         .48556         87.4         .87421         48.6         .68622         78.0         .94137         24.2         29.02         50.2         .508         .48730         87.3         .87323         48.7         .68780         77.8         .94113         24.2         29.00         22.         .509         .94879         24.2         29.00         22.         .94040         24.1         20.90         48.5         .68935         77.5         .94064         24.3         20.13         15.6         .511         .48905         87.2         .87274         48.8         9.68935         77.5         .94064         24.3         20.13         15.6         .513         .49079         87.1         .87088         49.1         .66000         77.1         .94064         24.3         20.13         16.1         45.5         20.2         29.30         24.3         20.13         15.6         49.4         49.2         66000         77.1         .94064         24.3         20.13         15.6         49.4         49.2         66000         76.9         .93991         2										28 52 37.4
.505         .48458         87.5         .87469         48.5         .68624         78.4         .04185         24.1         29.02         50.2         .508         .48556         87.4         .87421         48.6         .68622         78.0         .94137         24.2         29.02         50.2         .508         .48730         87.3         .87323         48.7         .68780         77.8         .94113         24.2         29.00         22.         .509         .94879         24.2         29.00         22.         .94040         24.1         20.90         48.5         .68935         77.5         .94064         24.3         20.13         15.6         .511         .48905         87.2         .87274         48.8         9.68935         77.5         .94064         24.3         20.13         15.6         .513         .49079         87.1         .87088         49.1         .66000         77.1         .94064         24.3         20.13         16.1         45.5         20.2         29.30         24.3         20.13         15.6         49.4         49.2         66000         77.1         .94064         24.3         20.13         15.6         49.4         49.2         66000         76.9         .93991         2	0.505	0.48381	87,5	0.87517	48,4	9.68467	78,6	9.94209	24,0	28 56 03.2
.597         .48556         87.4         .87421         48.6         .686722         78.2         .04161         24.1         20 02 55.         .598         .486730         87.3         .87323         48.7         .68780         .77.8         .94113         24.2         20 09 48.5           0.510         0.48818         87.3         .87224         48.9         .68935         .77.5         .94054         24.3         29 13 15.6           .511         .48902         87.2         .87127         49.0         .69013         .77.3         .94040         24.4         29 00 7.5           .513         .49079         87.1         .87128         49.1         .69067         .76.9         .93067         24.6         29 20 70.5           .514         .49166         87.1         .87929         49.3         .60320         76.9         .93367         24.6         29 30 35.5           .516         .49340         87.0         .85080         49.3         .60320         76.4         .93042         24.6         29 33 28.5           .517         .49427         86.9         .8681         49.5         .60473         76.2         .93873         24.4         29 37 18.5           .519	.506	.48468	87,5	.87469	48,5	.68546	78,4	.94185	24,1	28 59 29.9
.508	.507	.48556	87,4	.87421	48,6	.68524		.94161	24,1	29 02 56.2
.509         .48730         87,3         .87323         48,7         .68780         77,8         .94113         24,2         20 09 48.;           0.510         0.48818         87,3         0.87274         48,8         9.68858         77,6         9.94089         24,3         29 13 15.6           5.512         .48902         87,2         .87177         49,0         .69013         77,3         .94040         24,4         29 20 7.           .513         .49079         87,1         .87078         49,1         .69067         76,9         .93991         24,5         29 23 33.           .514         .49166         87,1         .87078         49,2         .69167         76,9         .93991         24,6         29 33 22.           .516         .49340         87,0         .86980         49,3         .69320         76,6         .93942         24,6         29 33 32.           .517         .49427         86,9         .85931         49,4         .69320         76,6         .93942         24,6         29 33 32.           .518         .49514         86,9         .85832         49,6         .69549         76,0         .93843         24,8         29 44 11.2 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>.68702</td><td></td><td></td><td></td><td>29 06 22.5</td></td<>						.68702				29 06 22.5
5511         .48905         87.2         .8712         48.9         .68935         77.5         .94064         24.3         20 16 17.5           .512         .48902         87.2         .87177         49.0         .69033         .77.3         .94040         24.4         29 20 07.5           .513         .49076         87.1         .87128         49.1         .69090         77.1         .94016         24.5         29 23 33.8           .514         .49166         87.1         .87078         49.2         .69167         76.9         .93991         24.5         29 27 00.1           .516         .49430         86.0         .85080         49.3         .69220         76.6         .93942         24.6         29 33 52.6           .517         .49427         86.9         .86881         49.5         .69473         76.2         .93893         24.6         29 37 31.8           .519         .49601         86.8         .80872         49.7         9.60625         75.9         .93843         24.9         29 47 37.7           .521         .49751         86.7         .86732         49.6         .69549         76.0         .93843         24.9         24.9         49.4         .				87323						29 09 48.7
.511 .48905 87.2 .8726 48.9 .68935 77.5 .94064 24.3 29 16 41.5 .512 .48902 87.1 .87128 49.1 .69060 77.1 .94016 24.5 29 20 07.5 .513 .49070 87.1 .87128 49.1 .69060 77.1 .94016 24.5 29 23 33.8 .514 .49166 87.1 .87078 49.2 .69167 76.9 .93901 24.5 29 27 00.1 .515 .49253 87.0 .86908 49.3 .69320 76.6 .93942 24.6 29 33 52.6 .516 .49340 87.0 .86980 49.3 .69320 76.6 .9342 24.6 29 33 52.6 .517 .49427 86.0 .86981 49.4 .69397 76.4 .93917 24.7 29 37 18.5 .518 .49514 86.0 .86881 49.5 .69473 76.2 .93803 24.8 29 40 45.1 .519 .49601 86.8 .83832 49.6 .69549 76.0 .93868 24.8 29 44 11.2 .521 .49775 86.7 .86682 49.9 .69549 76.0 .93888 24.9 29 47 37.5 .523 .49961 86.7 .86682 49.9 .69777 75.5 .93793 25.0 29 54 00.5 .524 .59035 86.6 .86682 49.9 .69777 75.5 .93793 25.0 29 54 00.5 .524 .59035 86.6 .86682 49.9 .69827 75.2 .93743 25.1 30 01 22.7 .525 .526 .50208 86.5 .86482 50.2 .70077 74.8 .93693 25.2 29 57 56.4 .526 .50208 86.5 .86482 50.2 .70077 74.5 .93893 25.2 29 57 56.4 .527 .50204 86.4 .86432 50.3 .70152 74.6 .93667 25.3 30 11 41.5 .528 .590467 86.3 .86331 50.5 .70307 74.1 .93807 25.4 30 12 2.7 .533 .590407 86.3 .86331 50.5 .70307 74.1 .93807 25.4 30 12 2.5 .533 .590407 86.3 .86331 50.5 .70307 74.1 .93804 25.3 30 11 41.5 .534 .50898 86.1 .86078 50.9 .70570 73.4 .93899 25.7 30 35 45.4 .535 .50968 86.1 .86078 50.9 .70570 73.4 .93899 25.7 30 35 45.4 .536 .51070 86.0 .86027 51.0 .70523 73.8 .93540 25.5 30 25 26.6 .537 .51156 85.9 .85925 51.2 .70890 72.9 .93314 25.5 30 25 26.6 .539 .50984 86.0 .86078 50.9 .70570 73.4 .93489 25.7 30 35 45.4 .536 .51070 85.9 .85925 51.2 .70890 72.9 .93314 25.5 30 25 26.6 .537 .51156 85.9 .85925 51.2 .70890 72.9 .93314 25.5 30 25 26.6 .537 .51156 85.9 .85925 51.2 .70890 72.9 .93314 25.9 30 49 30.4 .538 .51242 85.9 .85971 51.4 .70817 73.1 .93488 25.8 30 42 37.5 .538 .51440 85.8 .85868 51.2 .70890 72.9 .93314 25.9 .30 30 52.5 7.5 .544 .51956 85.6 .85655 51.8 .71396 71.8 .93292 26.3 31 10 88.6 .545 .541 .51499 85.7 .85719 51.5 .71186 72.3 .93308 26.1 30 59 40.2 .548 .52028 85.8 .85868 51.8 .71396 71.9 .93097	0.510	0.48818	87,3	0.87274	48,8	9.68858	77.6	9.94089	24,3	20 13 15.0
.512         .48902         87,2         .87127         49,0         .69003         77,1         .94040         24,4         20 20 07,2           .513         .49076         87,1         .87128         49,1         .69060         77,1         .94016         24,5         29 27 00.1           0.515         0.49253         87,0         .86980         49,3         .66320         76,6         .93901         24,6         29 30 26.3           .516         .49427         86,9         .86931         49,4         .69307         76,6         .93042         24,6         29 30 26.3           .517         .49427         86,9         .86931         49,4         .69307         76,4         .93017         24,7         29 37 18.6           .518         .49514         80,9         .8681         49,5         .69549         76,0         .93863         24,8         29 40 45.1           .519         .49601         86,8         .88732         49,4         .69521         75,9         .93843         24,9         29 47 37.2           .521         .49775         86,732         49,8         .69717         75,5         .933733         25,2         29 51 43.2           .522         <	.511	48005		.87226	48.0	.68035				
. \$13										
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5.16         .49340         87,0         .86980         49.3         .69320         76,6         .93942         24,6         29 33 52.6           .517         .49427         86,9         .86981         49.4         .69397         76,4         .93917         24,7         29.37 18.6           .518         .49514         86,9         .86881         49.5         .69473         76,2         .93893         24.8         29 44 411.2           0.520         0.49688         86,8         .85832         49.6         .69549         76,0         .93843         24,9         29 47 37.2           .521         .49757         86,7         .86682         49.9         .69777         75,7         .93818         24,9         29 47 37.2           .522         .49861         86,6         .86632         49.9         .69777         75,5         .93843         24,9         29 47 37.2           .523         .49948         86,6         .86632         49.9         .69852         75,3         .93768         25,0         29 57 56.4           .524         .50381         86,6         .86532         50,1         9.70002         75,0         .93718         25,2         30 04 49.2										29 27 00.1
5.16         .49340         87,0         .86980         49.3         .69320         76,6         .93942         24,6         29 33 52.6           .517         .49427         86,9         .86981         49.4         .69397         76,4         .93917         24,7         29.37 18.6           .518         .49514         86,9         .86881         49.5         .69473         76,2         .93893         24.8         29 44 411.2           0.520         0.49688         86,8         .85832         49.6         .69549         76,0         .93843         24,9         29 47 37.2           .521         .49757         86,7         .86682         49.9         .69777         75,7         .93818         24,9         29 47 37.2           .522         .49861         86,6         .86632         49.9         .69777         75,5         .93843         24,9         29 47 37.2           .523         .49948         86,6         .86632         49.9         .69852         75,3         .93768         25,0         29 57 56.4           .524         .50381         86,6         .86532         50,1         9.70002         75,0         .93718         25,2         30 04 49.2	0.515	0.40253	87.0	0.87020	40.2	0 60344	76.7	0.02067	216	20, 20, 26, 2
517         .49427         86,0         .85931         49.4         .69397         76,4         .93617         24,7         29 37 18.5           .518         .49514         86,0         .86881         49.5         .69473         76,2         .93893         24,8         20 40 45.1           .519         .49601         86,8         .8832         49,6         .69549         76,0         .93808         24,8         20 44 11.2           0.520         0.49688         86,8         0.86782         49,7         9.69625         75,9         9.93843         24,9         29 47 37.7           .521         .49775         86,7         .86632         49,9         .69777         75,5         .93793         25,0         29 57 56.4           .523         .49948         86,6         .86632         49,9         .69852         75,3         .93768         25,0         29 57 56.4           .524         .50035         86,5         .86632         50,1         .970002         75,0         9.93718         25,2         30 04 49.6           .525         .50208         86,5         .86482         50,2         .70077         74,6         .93693         25,2         30 11 41.5										
.518 .49514 86,9 .86881 49,5 .69473 76,2 .93893 24,8 29 40 45.1 .519 .49601 86,8 .85832 49,6 .69549 76,0 .93868 24,8 29 44 11.2 .512 .4975 86,7 .86732 49,8 .69701 75,7 .93818 24,9 29 57 56.2 .521 .49861 86,7 .86682 49,9 .69777 75,5 .93793 25,0 29 54 30.2 .523 .49861 86,7 .86682 49,9 .69777 75,5 .93793 25,0 29 54 30.2 .523 .49861 86,6 .86632 49,9 .69852 75,3 .93768 25,0 29 57 56.2 .524 .50035 86,6 .86632 49,9 .69852 75,3 .93768 25,0 29 57 56.2 .524 .50035 86,6 .86632 50,0 .69927 75,2 .93743 25,1 30 01 22,7 .525 .5224 86,4 .86382 50,4 .70277 74,8 .93693 25,2 30 04 49,0 .69852 75,3 .93768 25,2 30 04 49,0 .526 .525 .5224 86,4 .86382 50,4 .70226 74,5 .93667 25,3 30 11 41.5 .529 .50467 86,3 .86331 50,5 .70301 74,3 .93617 25,4 30 18 34.0 .536 .5046 86,2 .86230 50,6 .70449 74,0 .93566 25,5 30 25 26.6 .5328 86,1 .86729 50,7 .70523 73,8 .93540 25,6 30 28 52.8 .5381 .50812 86,1 .86729 50,7 .70523 73,8 .93540 25,6 30 28 52.8 .5381 .50812 86,1 .86729 50,7 .70523 73,8 .93540 25,6 30 28 52.8 .5381 .51020 86,0 .85976 51,1 .70817 73,1 .93438 25,6 30 28 52.8 .5381 .51020 86,0 .85976 51,1 .70817 73,1 .93438 25,7 30 35 45.4 .50828 85,8 .85822 51,3 .71035 72,6 .93336 25,0 .30 26,0 .30 28 52.8 .538 .51242 85,9 .85976 51,1 .70817 73,1 .93438 25,9 30 49 30.4 .539 .51328 85,8 .85822 51,3 .71035 72,6 .93336 26,2 30 30 50 25 56.7 .70817 73,1 .93438 25,9 30 49 30.4 .539 .51328 85,8 .85822 51,3 .71035 72,6 .93336 26,1 30 59 49.2 .534 .5156 85,9 .85976 51,1 .70817 73,1 .93438 25,9 30 49 30.4 .539 .51328 85,8 .85822 51,3 .71035 72,6 .93336 26,1 30 59 49.2 .544 .5158 85,7 .85668 51,0 .71252 72,1 .93282 26,2 31 03 12, .544 .5158 85,7 .85668 51,0 .71252 72,1 .93282 26,2 31 00 11.6 .544 .5156 85,9 .85579 51,5 .71186 72,3 .93203 26,3 31 10 08 0.546 .546 .51528 85,5 .85616 51,7 .71324 72,0 .93250 26,2 31 00 12.5 .544 .5156 85,6 .8556 51,8 .71396 71,8 .93320 26,0 30 52 56.7 .7152 .544 .51258 85,4 .85409 52,0 .71611 71,3 .93150 26,4 31 20 26.8 .546 .5226 85,3 .85355 52,2 .71753 71,0 .93007 26,6 31 27 19.3 .540 .5226 85,3 .85355 52,2 .71753 71,0 .930										
.519         .49601         86,8         .83832         49,6         .69549         76,0         .93858         24,8         29 44 11.2           0.520         0.49688         86,8         0.86782         49,7         9.69625         75,9         9.93843         24,9         29 47 37.2           .521         .49775         86,7         .86632         49,8         .69701         75,7         .93783         225,0         29 51 03.9           .523         .49948         86,6         .86632         49,9         .69872         75,5         .93793         25,0         29 57 56.2           .524         .50035         86,6         .86632         50,0         .69927         75,2         .93743         25,1         30 01 22.7           0.525         0.50121         86,5         .86482         50,2         .70077         74,8         .93693         25,2         30 04 49.0           .526         .50208         86,5         .86432         50,4         .70226         74,5         .93603         25,2         30 04 49.0           .527         .50204         86,4         .86382         50,3         .70152         74,6         .93667         25,3         30 11 41.5				86881						
0.520         0.49688         86,8         0.86782         49,7         9.69625         75,9         9.93843         24,9         29 47 37.7           .521         .49775         86,7         .86632         49,9         .69777         75,5         .93703         25,0         29 51 03.9           .523         .49948         86,6         .86582         49,9         .69777         75,5         .93703         25,0         29 57 63.0         29 57 63.0         29 57 63.0         25,0         29 57 63.0         29 57 63.0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         25,0         29 57 63.0         29 57 63.0         25,0         29 57 75,2         93703         25,0         29 57 75,2         29 37 68.2         25,0         29 57 75,2         93708         25,0         29 57 75,2         29 37 68.2         25,0         29 57 73,3         29378         25,1         30 01 22.7         20 20.2         20 20.2         20 20.2         20 20.2         20 20.2         20 20.2         20 20.2	-								24,0	
.521         .4975         86,7         .86732         49,8         .69701         75,7         .93818         24,9         29 51 03.5           .522         .49861         86,6         .86632         49,9         .69852         75,3         .93763         25,0         29 54 30.2           .524         .50035         86,6         .86632         49,9         .69852         75,3         .93763         25,0         29 57 56.2           .524         .50035         86,6         .86582         50,0         .69927         75,2         .93743         25,1         30 01 22.7           0.525         0.50121         86,5         .86582         50,1         9.70002         75,0         9.93718         25,2         30 04 49.6           .526         .50208         86,5         .86482         50,2         .70077         74,8         .93693         25,2         30 08 15.2           .527         .50204         86,4         .86432         50,3         .70152         74,6         .93667         25,3         30 11 41.5           .528         .50381         86,4         .86322         50,4         .70226         74,5         .93422         25,3         30 15 76.4	.519		-		49,0	.09549	70,0		24,0	, , ,
. 522		'-			49,7					
.523			80,7				75,7			
.524         .50035         86,6         .86582         50,0         .69927         75,2         .93743         25,1         30 01 22.7           0.525         0.50121         86,5         0.86532         50,1         9.70002         75,0         9.93718         25,2         30 04 49.6           .526         .50208         86,5         .86482         50,2         .70077         74,8         .93693         25,2         30 08 15.2           .527         .50204         86,4         .86432         50,3         .70152         74,6         .93667         25,3         30 11 41.5           .528         .50381         86,4         .86382         50,4         .70226         74,5         .93642         25,3         30 11 41.5           .529         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34.0           0.530         0.50553         86,3         0.86281         50,6         .70449         74,0         .93566         25,5         30 25 26.6           .531         .50640         86,2         .86179         50,7         .70523         .73,8         .93340         25,6         30 25 26.6		ا م ''	86,7				75,5			
0.525         0.50121         86,5         0.86532         50,1         9.70002         75,0         9.93718         25,2         30 04 49.0           .526         .50208         86,5         .86482         50,2         .70077         74,8         .93693         25,2         30 04 49.0           .527         .50294         86,4         .86382         50,4         .70226         74,5         .93642         25,3         30 15 07.8           .528         .50381         86,4         .86382         50,4         .70226         74,5         .93642         25,3         30 15 07.8           .529         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34.0           0.530         0.50553         86,3         0.86281         50,6         9.70375         74,1         9.93591         25,4         30 22 00.3           .531         .50640         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 22 56.6           .532         .50726         86,1         .86129         50,8         .70597         73,6         .93515         25,6         30 32 19.1							75,3	93768		
.526         .50208         86,5         .86482         50,2         .70077         74,8         .93693         25,2         30 08 15,2           .527         .50204         86,4         .86432         50,3         .70152         74,6         .93667         25,3         30 11 41,8           .520         .50467         86,3         .86381         50,4         .70226         74,5         .93642         25,3         30 15 07,8           .520         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34,0           0.530         .50553         86,3         .86230         50,6         .70449         74,0         .93566         25,5         30 25 26,6           .532         .50726         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 22 56,6           .533         .50812         86,1         .86029         50,8         .70597         73,6         .93540         25,6         30 32 19,1           .534         .50898         86,1         .86078         50,9         .70670         73,4         .93489         25,7         30 35 45,4 <t< td=""><td>.524</td><td>.50035</td><td>86,6</td><td>.86582</td><td>50,0</td><td>69927</td><td>75,2</td><td>•93743</td><td>25,1</td><td>30 01 22.7</td></t<>	.524	.50035	86,6	.86582	50,0	69927	75,2	•93743	25,1	30 01 22.7
. 527	0.525	0.50121	86,5		50,1	9.70002	75,0	9.93718	25,2	30 04 49.0
.528         .50381         86,4         .86382         50,4         .70226         74,5         .93642         25,3         30 15 07 8           .529         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34.0           0.530         0.50553         86,3         .86230         50,6         .70449         74,0         .93566         25,5         30 25 26.6           .531         .50640         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8           .532         .50726         86,2         .86179         50,7         .70523         73,6         .93515         25,6         30 28 52.8           .533         .50812         .861         .86078         50,9         .70670         73,4         .93489         25,7         30 35 45.4           0.535         0.50984         86,0         .86078         50,9         .70743         73,3         9.93463         25,7         30 39 11.6           0.535         .51070         86,0         .85076         51,1         .70817         73,1         .93438         25,8         30 42 37.9	. 526	.50208	86,5	.86482	50,2	.70077	74,8	.93693	25,2	30 08 15.2
.528         .50381         86,4         .86382         50,4         .70226         74,5         .93642         25,3         30 15 07 8           .529         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34.0           0.530         0.50553         86,3         .86230         50,6         .70449         74,0         .93566         25,5         30 25 26.6           .531         .50640         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8           .532         .50726         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8           .533         .50812         86,1         .86129         50,8         .70597         73,6         .93515         25,6         30 32 19.1           .534         .50898         86,1         .86078         50,9         .70670         73,4         .93489         25,7         30 35 11.6           .535         .51070         86,0         .86078         51,1         .70817         73,1         .93483         25,8         30 42 37.9           <	.527	.50294	86,4	.86432	50,3	.70152	74,6	.93667	25,3	30 11 41.5
.529         .50467         86,3         .86331         50,5         .70301         74,3         .93617         25,4         30 18 34.0           0.530         0.50553         86,3         0.86281         50,6         9.70375         74,1         9.93591         25,4         30 22 00.3           .531         .50640         86,2         .86230         50,6         .70449         74,0         .93566         25,5         30 25 26.6           .532         .50726         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8           .533         .50812         86,1         .86129         50,8         .70597         73,6         .93515         25,6         30 32 19.1           .534         .50898         86,1         .86078         50,9         .70670         73,4         .93489         25,7         30 35 45.4           0.535         .55084         86,0         .86027         51,0         9.70743         73,3         9.93463         25,7         30 39 11.6           5.35         .51970         86,0         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.9	.528	.50381	86,4	.86382	50,4	.70226	74,5	.93642	25,3	30 15 07.8
.531         .50640         86,2         .86230         50,6         .70449         74,0         .93566         25,5         30 25 26.6         30 28 52.8           .532         .50726         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8         32 19.1           .534         .50802         86,1         .86029         50,8         .70597         73,6         .93515         25,6         30 32 19.1           .534         .50808         86,1         .86029         50,8         .70597         73,6         .93515         25,6         30 32 19.1           .535         .50984         86,0         .86027         51,0         .70743         73,3         9.93463         25,7         30 39 11.6           .537         .51156         85,9         .85025         51,2         .70807         72,8         .93386         25,9         30 49 30.4           .538         .51242         85,9         .85874         51,2         .70963         72,8         .93386         25,9         30 49 30.4           .539         .51328         85,8         .85871         51,4         9.71108         72,5         .93334         26,0	.529	.50467	86,3	.86331	50,5	.70301	74,3	.93617	25,4	30 18 34.0
.532         .50726         86,2         .86179         50,7         .70523         73,8         .93540         25,6         30 28 52.8         .533         .50812         86,1         .86129         50,8         .70597         73,6         .93515         25,6         30 32 19.1         .534         .50898         86,1         .86078         50,9         .70670         73,4         .93489         25,7         30 35 45.4           0.5335         0.50984         86,0         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.9         .537         .51156         85,9         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.9         .537         .51156         85,9         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.9         .537         .51156         85,9         .85925         51,2         .70800         72,9         .93412         25,9         30 46 04.2         .539         .51328         85,8         .85822         51,3         .71035         72,6         .93360         26,0         30 52 56.7           0.540         0.51414         85,8         0.85771         51,4			86,3			9.70375	74,I			30 22 00.3
.533						70449	74,0	.93566	25,5	
.534         .50898         86,1         .86078         50,9         .70670         73,4         .93489         25,7         30 35 45.4           0.535         0.50984         86,0         0.86027         51,0         9.70743         73,3         9.93463         25,7         30 39 11.6           .536         .51070         86,0         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.6           .537         .51156         85,9         .85925         51,2         .70890         72,9         .93412         25,9         30 46 04.2           .538         .51242         85,9         .85874         51,2         .70963         72,8         .93386         25,9         30 49 30.4           .539         .51328         85,8         .85822         51,3         .71035         72,6         .93360         26,0         30 52 56.7           0.540         .51414         85,8         .85719         51,5         .71180         72,5         9.93334         26,0         30 59 49.2           .541         .51499         85,7         .85616         51,7         .71380         72,3         .93308         26,1         30 59 49.2								.93540		30 28 52.8
0.535       0.50984       86,0       0.86027       51,0       9.70743       73,3       9.93463       25,7       30 39 11.6         .536       .51070       86,0       .85976       51,1       .70817       73,1       .93438       25,8       30 42 37.9         .537       .51156       85,9       .85925       51,2       .70800       72,9       .93412       25,9       30 46 04.2         .538       .51242       85,9       .85874       51,2       .70963       72,8       .93386       25,9       30 49 30.4         .539       .51328       85,8       .85822       51,3       .71035       72,6       .93360       26,0       30 52 56.7         0.540       0.51414       85,8       0.85711       51,4       9.71108       72,5       9.93334       26,0       30 59 49.2         .541       .51499       85,7       .85668       51,6       .71252       72,1       .93282       26,2       31 03 15.5         .542       .51585       85,7       .85616       51,7       .71324       72,0       .93256       26,2       31 06 41.7         .544       .51756       85,6       .85565       51,8       .71396       71,8							73,6			30 32 19.1
.536         .51070         86,0         .85976         51,1         .70817         73,1         .93438         25,8         30 42 37.9           .537         .51156         85,9         .85025         51,2         .70890         72,9         .93412         25,9         30 46 04.2           .538         .51242         85,9         .85874         51,2         .70963         72,8         .93386         25,9         30 49 30 4           .539         .51328         85,8         .85822         51,3         .71035         72,6         .93360         26,0         30 52 56.7           0.540         .51414         85,8         0.85771         51,4         9.71108         72,5         9.93334         26,0         30 56 23.0           .541         .51499         85,7         .8568         51,5         .71180         72,3         .93308         26,1         30 59 49.2           .543         .51671         85,6         .85616         51,7         .71324         72,0         .93256         26,2         31 03 15.5           .543         .51756         85,6         .85616         51,7         .71324         72,0         .93250         26,2         31 06 41.7	•534	.50898	86,1	.86078	50,9	70070	73,4	.93489	25,7	30 35 45.4
.537         .51156         85,9         .85925         51,2         .70890         72,9         .93412         25,9         30 46 04.2           .538         .51242         85,9         .85874         51,2         .70963         72,8         .93386         25,9         30 49 30 4           .539         .51328         85,8         .85822         51,3         .71035         72,6         .93360         26,0         30 52 56.7           0.540         .51414         85,8         .85719         51,5         .71180         72,5         9.93334         26,0         30 59 49.2           .541         .51499         85,7         .85668         51,6         .71252         72,1         .93282         26,2         31 03 15.5           .542         .51585         85,7         .85616         51,7         .71324         72,0         .93256         26,2         31 03 15.5           .543         .51671         85,6         .85565         51,8         .71396         71,8         .93229         26,3         31 10 08.0           0.5455         .5456         .85,50         .85513         51,8         .71468         71,6         9.93203         26,3         31 13 04.3										30 39 11.6
.538         .51242         85,0         .85874         51,2         .70963         72,8         .93386         25,9         30 49 49 49 49 49 49 49 49 49 49 49 49 49										1
0.539         .51328         85,8         .85822         51,3         .71035         72,6         .93360         26,0         30 52 56.7           0.540         .5141         .51499         .85,7         .51,4         9.71108         72,5         9.93334         26,0         30 56 23.0           .541         .51499         .85,7         .85668         51,6         .71180         72,3         .93308         26,1         30 59 49.2           .542         .51858         85,7         .85668         51,6         .71252         72,1         .93282         26,2         31 03 15.5           .543         .51671         85,6         .85616         51,7         .71324         72,0         .93256         26,2         31 03 15.8           .544         .51756         85,6         .85565         51,8         .71396         71,8         .93229         26,3         31 10 08.0           0.545         .51927         85,5         .85461         51,9         .71468         71,6         9.93203         26,3         31 13 34.3           .546         .51927         85,5         .85401         51,9         .71540         71,5         .93177         26,4         31 17 00.5										
0.540       0.51414       85,8       0.85771       51,4       9.71108       72,5       9.93334       26,0       30 56 23.0         .541       .51499       85,7       .85719       51,5       .71180       72,3       .93334       26,1       30 59 49.2         .542       .51585       85,7       .85668       51,6       .71252       72,1       .93282       26,2       31 03 15.5         .543       .51671       85,6       .85616       51,7       .71324       72,0       .93256       26,2       31 06 41.7         .544       .51756       85,6       .85565       51,8       .71396       71,8       .93229       26,3       31 10 08.0         0.545       .51927       85,5       .85461       51,9       .71540       71,5       .93177       26,4       31 17 00.5         .547       .52013       85,4       .85409       52,0       .71611       71,3       .93150       26,4       31 20 26.8         .548       .52098       85,4       .85357       52,1       .71682       71,2       .93124       26,5       31 23 53.1         .549       .52183       85,3       .85305       52,2       .71753       71,0 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>										
.541     .51499     85,7     .85719     51,5     .71180     72,3     .93308     26,1     30 59 49.2       .542     .51585     85,7     .85668     51,6     .71252     72,1     .93282     26,2     31 03 15.5       .543     .51671     85,6     .85616     51,7     .71324     72,0     .93256     26,2     31 06 41.7       .544     .51756     85,6     .85565     51,8     .71396     71,8     .93229     26,3     31 10 08.0       0.545     0.51842     85,5     0.85513     51,8     9.71468     71,6     9.93203     26,3     31 13 34.3       .546     .51927     85,5     .85461     51,9     .71540     71,5     .93177     26,4     31 17 00.5       .547     .52013     85,4     .85409     52,0     .71610     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071	•539	.51328	05,0	.85822	51,3	.71035	72,0	.93300	20,0	30 52 50.7
.542       .51585       85,7       .85668       51,6       .71252       72,1       .93282       26,2       31 03 15.5         .543       .51671       85,6       .85616       51,7       .71324       72,0       .93256       26,2       31 06 41.7         .544       .51756       85,6       .85565       51,8       .71396       71,8       .93229       26,3       31 10 08.0         0.545       .51927       85,5       .85461       51,9       .71468       71,5       .93273       26,4       31 17 00.5         .547       .52013       85,4       .85409       52,0       .71611       71,3       .93150       26,4       31 20 26.8         .548       .52098       85,4       .85357       52,1       .71682       71,2       .93124       26,5       31 23 53.1         .549       .52183       85,3       .85305       52,2       .71753       71,0       .93097       26,6       31 27 19.3         0.550       0.52269       85,3       0.85252       52,3       9.71824       70,8       9.93071       26,6       31 30 45.6			85,8							30 56 23.0
.543     .51671     85,6     .85616     51,7     .71324     72,0     .93256     26,2     31 06 41.7       .544     .51756     85,6     .85565     51,8     .71396     71,8     .93229     26,3     31 10 08.0       0.545     .51627     85,5     .85461     51,9     .71468     71,6     9.93203     26,3     31 13 34.3       .546     .51927     85,5     .85409     52,0     .71540     71,5     .93177     26,4     31 17 00.5       .547     .52013     85,4     .85409     52,0     .71611     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6				.85719	51,5					30 59 49.2
.544     .51756     85,6     .85565     51,8     .71396     71,8     .93229     26,3     31 10 08.00       0.545     0.51842     85,5     0.85513     51,8     9.71468     71,6     9.93203     26,3     31 13 34.3       .546     .51927     85,5     .85461     51,9     .71540     71,5     .93177     26,4     31 17 00.5       .547     .52013     85,4     .85409     52,0     .71611     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6			85,7							
0.545     0.51842     85,5     0.85513     51,8     9.71468     71,6     9.93203     26,3     31 13 34.3       .546     .51927     85,5     .85461     51,9     .71540     71,5     .93177     26,4     31 17 00.5       .547     .52013     85,4     .85409     52,0     .71671     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6			85,6							31 06 41.7
.546     .51927     85,5     .85461     51,9     .71540     71,5     .93177     26,4     31 17 00.5       .547     .52013     85,4     .85409     52,0     .71611     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6	•544	.51756	85,6	.85505	51,8	.71396	71,8	.93229	26,3	31 10 08.0
.547     .52013     85,4     .85409     52,0     .71611     71,3     .93150     26,4     31 20 26.8       .548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6										31 13 34.3
.548     .52098     85,4     .85357     52,1     .71682     71,2     .93124     26,5     31 23 53.1       .549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6										31 17 00.5
.548       .52098       85,4       .85357       52,1       .71682       71,2       .93124       26,5       31 23 53.1         .549       .52183       85,3       .85305       52,2       .71753       71,0       .93097       26,6       31 27 19.3         0.550       0.52269       85,3       0.85252       52,3       9.71824       70,8       9.93071       26,6       31 30 45.6	• 547		85,4	.85409				7.7.7.1		31 20 26.8
.549     .52183     85,3     .85305     52,2     .71753     71,0     .93097     26,6     31 27 19.3       0.550     0.52269     85,3     0.85252     52,3     9.71824     70,8     9.93071     26,6     31 30 45.6	.548		85,4	85357						31 23 53.1
	•549	.52183	85,3	.85305	52,2	•71753	71,0	93097	26,6	31 27 19.3
einh in	0.550	0.52269	85,3	0.85252	52,3		70,8	9.93071	26,6	31 30 45.6
						ginh in				

	u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
-			بنسسب	<del>نائن برند</del>				<del>National State</del>	Allegan and the same of	
1.	0.550	0.52269	85,3	0.85252	52,3	9.71824	70,8	9.93071	26,6	31 30 45.64
1			85,2	.85200	52,4	71895	70,7	.93044	26,7	31 34 11.91
1	.551	.52354	85,1	.85148	52,4	71956	70,5	.93017	26,7	31 37 38.17
	.552	52439	85,1	.85095		72035	70,3	.92991	26,8	31 41 04.44
	-553	.52524			52,5	72105		.92991	26,9	31 44 30.70
1	•554	.52609	85,0	.85043	52,6	./2100	70,2	192904	20,9	31 44 30.70
	0.555	0.52694	85,0	0.84990	52,7	9.72176	70,0	9.92937	26,9	31 47 56.97
	.556	52779	84,9	.84937	52,8	.72246	69,9	.92910	27,0	31 51 23.23
1	•557	.52864	84,9	.84884	52,9	.72316	69,7	.92883	27,0	31 54 49.50
1	.558	.52949	84,8	.84832	52,9	.72386	69,6	.92856	27,1	31 58 15.76
	• 559	.53034	84,8	.84779	53,0	.72455	69,4	.92829	27,2	32 01 42.03
1	0.560	0.53119	84,7	0.84726	53,İ	9.72525	69,3	9.92801	27,2	32 05 08.29
	.561	.53203	84,7	.84672	53,2	.72594	69,1	.92774	27,3	32 08 34.56
1	.562	.53288	84,6	.84619	53,3	.72663	69,0	.92747	27,3	32 12 00.82
	.563		84,6	.84566	53,4	.72732	68,8	.92719	27,4	32 15 27.09
	.564	·53373 ·53457	84,5	.84512	53,5	.72801	68,7	.92/19	27,4	32 18 53.35
	• 504	.55457			23,2			192092	2/,5	100
1.	0.565	0.53542	84,5	0.84459	53,5	9.72869	68,5	9.92665	27,5	32 22 19.62
1	. 566	.53626	84,4	.84405	53,6	.72938		.92637	27,6	32 25 45.88
1	. 567	.53710	84,4	.84352	53,7	.73006	68,2	.92609	27,7	32 29 12.15
1	. 568	•53795	84,3	.84298	53,8	.73074	68,1	.92582	27,7	32 32 38.41
	.569	.53879	84,2	.84244	53,9	.73142	67,9	.92554	27,8	32 36 04.67
l	0.570	0.53963	84,2	0.84190	54,0	9.73210	67,8	9.92526	27,8	32 39 30.94
1	.571	54047	84,1	.84136	54,0	.73277	67,6	.92498	27,9	32 42 57.20
-1	.572	.54131	84,1	.84082	54,1	•73345	67,5	.92470	28,0	32 46 23.47
ı	•573	.54216	84,0	.84028	54,2	.73412	67,3	.92442	28,0	32 49 49.73
	.574	.54300	84,0	83974	54,3	73480	67,2	.92414	28,1	32 53 16.00
	• 374	134300		- F	3-470				1.00	
H	0.575	0.54383	83,9	0.83919	54,4	9.73547	67,0	9.92386	28,1	32 56 42.26
1	.576	-54467	83,9	.83865	54,5	.73614	66,9	.92358	28,2	33 00 08.53
1	- 577	.54551	83,8	.83810	54,6	.73680	66,7	.92330	28,3	33 03 34.79
ı	. 578	.54635	83,8	.83756	54,6	•73747	66,6	.92301	28,3	33 07 01.06
	•579	.54719	83,7	.83701	54,7	.73814	66,4	.92273	28,4	33 10 27.32
	0.580	0.54802	83,6	0.83646	54,8	9.73880	66,3	9.92245	28,5	33 13 53.59
11	.581	.54886	83,6	.83591	54,9	.73946	66,2	.92216	28,5	33 17 19.85
	.582	.54970	83,5	.83536	55,0	.74012	66,0	.92188	28,6	33 20 46.12
	. 583	-55053	83,5	.83481	55,1	.74078	65,9	.92159	28,6	33 24 12.38
	. 584	55137	83,4	.83426	55,1	.74144	65,7	.92130	28,7	33 27 38.65
	0.585	0 55000	82.4	0.83371		0.74210	65,6	9.92102	28,8	33 31 04.91
		0.55220	83,4	82276	55,2	9.74210			28,8	33 34 31.18
Н	. 586	.55303	83,3	.83316	55,3	.74275	65,4	.92073		33 34 31.10
	.587	.55387	83,3	.83261	55,4	74340	65,3	.92044	28,9	33 37 57.44 33 41 23.71
	. 588	.55470	83,2	.83205	55,5	74406	65,1	.92015	29,0	33 41 23./1
	. 589	-55553	83,1	.83150	55,6	•74471	65,0	.91986	29,0	33 44 49.97
	0.590	0.55636	83,1	0.83094	55,6	9.74536	64,9	9.91957	29,1	33 48 16.24
	.591	55719	83,0	.83038	55.7	.74600	64,7	.91928	29,1	33 51 42.50
	.592	55802	83.0	.82083	55.8	.74665	64,6	.01800	29,2	33 55 08.77
	• 593	55885	82,9	.82927	55,9	.74730	64,4	.01860	29,3	33 58 35.03
	• 594	.55968	82,9	.82871	56,0	•74794	64,3	.91840	29,3	33 55 08.77 33 58 35.03 34 02 01.29
	0.595	0.56051	82,8	0.82815	56,1	9.74858	64,2	0.01811	29,4	34 05 27.56
	.596	.56134	82,8	.82759	56,1	74922	64,0	.91781	29,5	34 08 53.82
1	597	.56216	82,7	.82703	56,2	74986	63,9	.91752	29,5	34 12 20.09
1	.598	56299	82,6	.82646	56,3	75050	63,8	.91722	29,6	34 15 46.35
1	.599	.56382	82,6	.82590	56,4	75114	63,6	.91693	29,6	34 19 12.62
						POSSER SPRINGS		Li zak		
	0.600	0.56464	82,5	0.82534	56,5	9.75177	63,5	9.91663	29,7	34 22 38.88
-			1922			, sinh iu	_ ,			Appendix to company
	u .	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

				WE 120 - 130	Say Say Say Say Say	are beautiful and a			
u u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.600	0.56464	82,5	0.82534	56,5	9.75177	63,5	9.91663	29,7	34 22 38.88
.601	.56547	82,5	.82477	56,5	.75241	63,3	.91633	29,8	34 26 05.15
.602	.56629	82,4	.82420	56,6	75304	63,2	91604	29,8	34 29 31.41
.603	.56712	82,4	.82364	56,7	.75367	63,1	.91574	29,9	34 32 57.68
.604	.56794	82,3	.82307	56,8	.75430	62,9	.91544	30,0	34 36 23.94
0.605	0.56876	82,3	0.82250	56,9	9.75493	62,8	9.91414	30,0	34 39 50.21
.606	.56958	82,2	.82193	57,0	-75556	62,7	.91484	30,1	34 43 16 47
.607	.57041	82,1	.82130 .82079	57,0	.75618	62,5	.91454	30,2	34 46 42.74
.608	.57123 .57205	82,1 82,0	.82022	57,1 57,2	.75681 .75743	62,4 62,3	.91423	30,2 30,3	34 50 09.00 34 53 35.27
0.610	0.57287	82,0	0.81965	57,3	9.75805	62,1	9.91363	30,4	34 57 01.53
.611	.57369	81,9	.81907	57,4	.75867	62,0	.91332	30,4	35 00 27.80
.612	.57451	81,9	.81850	57,5	.75929	61,9	.91302	30,5	35 03 54.06
.613	.57532	81,8	.81793	57,5	.75991	61,7	.91271	30,5	35 07 20.33
.614	.57614	81,7	.81735	57,6	.76053	61,6	.91241	30,6	35 10 46.59
0.615	0.57696	81,7	0.81677	57,7	9.76114	61,5	9.91210	30,7	35 14 12.86
.616	.57778	81,6	.81620	57,8	.76176	61,4	.91179	30,7	35 17 39 12
.617	.57859	81,6	.81562	57,9	.76237	61,2	.91149	30,8	35 21 05.39
.618	.57941	81,5 81,4	.81504 .81446	57,9 58,0	76298	61,1	.91118	30,9	35 24 31.55 35 27 57 92
.619					76359	61,0		30,9	_
0.620	0.58104	81,4	0.81388	58,1	9.76420	60,8	9.91056	31,0	35 31 24.18
.621	.58185	81,3	.81330	58,2	.76481	60,7	.91025	31,1	35 34 50.44
.622	.58266	81,3 81,2	.81271 .81213	58,3 58,3	.76542 .76602	60,6 60,4	90994	31,1	35 38 16.71
.623	.58347	81,2	.81155	58,4	76663	60,3	.90953	31,2 31,3	35 41 42.97 35 45 09.24
		,							
0.625	0.58510	81,1	0.81096	58,5	9.76723	60,2	0.90900	31,3	35 48 35.50
.626	.58591	81,0	.81038	58,6	.76783 .76843	60,1	.90869	31,4	35 52 01.77
.627	.58672 .58753	81,0 80,9	.80979	58,7 58,8	.76903	59,9 59,8	.90837 .90806	31,5 31,5	35 55 28.03 35 58 54.30
.629	.58834	80,9	.80862	58,8	.76963	59,7	.90774	31,6	36 02 20.56
0.630	0.58914	80,8	0.80803	58,9	9.77022	59,6	9.90743	31,7	36 05 46.83
.631	.58995	80,7	.80744	59,0	.77082	59,4	.90711	31,7	36 09 13.09
.632	.59076	80,7	.80685	59,1	.77141	59,3	.90679	31,8	36 12 39.36
.633	.59157	80,6	.80526	59,2	77200	59,2	90547	31,9	36 16 05.62
.634	•59237	80,6	.80566	59,2	.77259	59,1	.90615	31,9	36 19 31.89
0.635	0.59318	80,5	0.80507	59,3	9.77318	58,9	9.90583	32,0	36 22 58.15
636	.59398	80,4	.80448	59,4	77377	58,8	.90551	32,1	36 26 24.42
637	59479	80,4	.80388	59,5	•77436	58,7 58,6	.90519	32,1	36 29 50.68
638	·59559 ·59539	80,3 80,3	.80329 .80269	59,6 59,6	·77495 ·77553	58,5	.90487	32,2 32,3	36 33 16.95 36 36 43.21
		1.5		-15	to actionaturale	· ·			
0.640	0.59720	80,2	0.80210	59,7 59,8	9.77612	58,3	9.90423	32,3	36 40 09.48
.641	59800	80,I	.80150		77670	58,2	.90390	32,4	36 43 35.74
.642	.59880 .59950	80,1 80,0	.80090	59,9 60,0	.77728	58,1 58,0	.90358	32,5 32,5	36 47 02.01 36 50 28.27
.644	.60040	80,0	.79970	60,0	.77844	57,8	.90323	32,6	36 53 54.54
0.645	0.60120	79,9	0.79910	60,1	9.77902	57,7	9.90260	32,7	36 57 20.80
.646	.60200	79,8	.79850	60,2	-77959	57,6	.90227	32,7	37 00 47.06
.647	.60280	79,8	.79790	60,3	.78017	57,5	.90195	32,8	37 04 13.33
.648	.60359 .60439	79,7 79,7	.79729 .79669	60,4 60,4	.78074 .78132	57,4 57,2	.90162 .90129	32,9 32,9	37 07 39.59 37 11 05.86
0.650	0.60519	79,6	0.79608	60,5	9.78189	57,1	9.90096	33,0	37 14 32.12
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

U	sin u	ω F <sub>0</sub> ′	cos u	<b>ω F</b> ₀′	log sin u	ω F <sub>0</sub> '	log cos u	ω F <sub>0</sub> ′	u
o.650	0.60519	70.6	0.79608	60,5	9.78189	F/7 T	9.90096	22.0	0 / #
.651	.60598	79,6 79,5	.79548	60,6	.78246	57,1 57,0	.90063	33,0 33,1	37 14 32.1 37 17 58.3
.652	.60578	79.5	.79487	60,7	.78303	56,9	.90030	33,2	37 21 24.6
.653	.60757	79,3	.79426	60.8	.78360	56,8	.89997	33,2	37 24 50.9
.654	60837	79,4	.79366	60,8	.78416	56,7	.89963	33,3	37 28 17.1
0.655	0.60916	79,3	0.79305	60,9	9.78473	56,5	9.89930	33,4	37 31 43.4
.656	.60995	79,2	79244	61,0	.78530	56,4	.89897	33,4	37 35 09.7
.657	.61074	79,2	.79183	61,1	.78586	56,3	.89863	33,5	37 38 35.9
.658 .659	.61154	79,1 79,1	.79122 .79060	61,2 61,2	.7864 <i>2</i> .78698	56,2 56,1	.89830 .89796	33,6 33,6	37 42 02.2 37 45 28.5
0.660	0.61312	79,0	0.78999	61,3	9.78754	56,0	9.89762	33 <b>,</b> 7	37 48 54.7
.661	.61391	78,9	.78938	61,4	.78810	55,8	.89729	33,8	37 52 21.0
.662	.61470	78,9	.78876	61,5	.78866	55,7	89695	33,8	37 55 47 3
.663	.61548	78,8	.78815	61,5	.78922	55,6	.89661	33,9	37 59 13.5
.654	.61627	78,8	.78753	61,6	.78977	55,5	.89527	34,0	38 02 39.8
0.665 .666	0.61706 .61785	78,7 78,6	0.78692 .78630	61,7 61,8	9.79033 .79088	55,4 55,3	9.89593 .89559	34,1 34,1	38 06 06.1 38 09 32.3
.667	.61863	78,6	.78568	61,9	.79143	55,2	.89525	34,2	38 12 58.6
.668	.61942	78,5	.78506	61,9	.79198	55,0	.89490	34,3	38 IO 24.8
.669	.62020	78,4	.78444	62,0	.79253	54.9	.89456	34,3	38 19 51.1
0.670 .671	0.62099	78,4 78,3	0.78382	62,1 62,2	9.79308 .79363	54,8 54,7	9.89422	34,4 34,5	38 23 17.4 38 26 43.6 38 30 09.9
.672	.62255	78,3	.78258	62,3	79418	54,6	.89353	34,5	38 30 00 0
.673	.62333	78,2	.78196	62,3	79472	54,5	.89318	34,6	38 33 36.2
.674	.62412	78,1	.78133	62,4	79527	54,4	.89284	34,7	38 37 02.4
0.675	0.62490	78,1	0.78071	62,5	9.79581	54,3	9.89249	34,8	38 40 28.7
.676	.62568 .62646	78,0	.78008	62,6	79635	54,I	.89214	34,8	38 43 55.0
.677 .678	.62724	77,9	.77946 .77883	62,6 62,7	.79689 .79743	54,0 53,9	.89179	34,9 35,0	38 47 21.2 38 50 47.5
.679	.62802	77,9 77,8	.77820	62,8	79797	53,8	.89109	35,0	38 54 13 8
o.68o	0.62879	77,8	0.77757	62,9	9.79851	53,7	9.89074	35,1	38 57 40.0
.681	62957	77.7	77694	63,0	79904	53,6	89039	35,2	39 01 06.3
.682	.63035	77,6	77631	63,0	.79958 80011	53,5	.89004 .88968	35.3	39 04 32.6
.683 .684	.63112	77,6	.77568 .77505	63,1 63,2	.80065	53,4 53,3	.88933	35,3 35,4	39 07 58.8 39 II 25.1
0.685	0.63267	1		_	9.80118		9.88898		L
.686	.63345	77,4 77,4	0.77442 .77379	63,3	.80171	53,2 53,1	.88852	35,5 35,6	39 14 51 3 39 18 17 6
.687	.63422	77,3	.77315	63,4	.80224	52,9	.88826	35,6	39 21 43.9
.688	.63499	77.3	.77252	63,5	.80277	52,8	.88791	35,7	39 25 10.1
.689	.63577	77,2	.77188	63,6	.80330	52,7	.88755	35,8	39 28 36.4
0.690 .691	0.63654	77,I	0.77125 .77061	63,7 63,7	9.80382	52,6 52,5	9.88719	35,8	39 32 02.7
.692	.63731 .63808	77,1 77,0	76997	63,8	.80487	52,5 52,4	.88547	35,9 36,0	39 35 28.0 39 38 55.4
.693	.63885	76,9	76933	63,9	80540	52,3	.88611	36,1	39 42 21.5
.694	.63962	76,9	.76869	64,0	.80592	52,2	.88575	36,1	39 45 47 7
<b>0.</b> 695	0.64039	76,8	0.76805	64,0	9.80644	52,I	9.88539	36,2	
.696	.64115	76,7	.76741 .76677	64,1 64,2	80696	52,0	.88503	36,3	39 52 40.3
.697 .698	.64192	76,7 76,6	.76613	64,3	.80748 .80800	51,9 51,8	.88430	36,4 36,4	39 56 o6.5 39 59 32.8
.699	.64345	76,5	76549	64,3	.80852	51,7	.88394	36,5	40 02 59.
0.700	0.64422	76,5	0.76484	64,4	9.80903	51,6	9.88357	<b>3</b> 6,6	40 06 25.3
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ωF₀′	cos u	ω F <sub>0</sub> ′	log sin u	ω <b>F</b> <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.700	0.64422	76,5	0.76484	64,4	9.80903	51,6	9.88357	<b>3</b> 6,6	40°06′25
.701	.64498	76,4	.76420	64,5	80955	51,5	.88321	36,7	40 00 51
.702	.64575	76,4	76355	64,6	.81006	51,4	.88284	36,7	40 13 17
.703	.64651	76,3	.76291	64,7	.81057	51,2	.88247	36,8	40 16 44
.704	.64727	76,2	.76226	64,7	.81109	51,1	.88210	36,9	40 20 10
0.705	0.64803	76,2	0.76161	64,8	9.81160	51,0	9.88173	37,0	40 23 36
.706 .707	.64880	76,1 76,0	.76096 .76031	64,9 65,0	.81211	50,9 50,8	.88136	37,0 37,1	40 27 02
.708	.65032	76,0	75966	65,0	.81312	50,7	.88562	37,2	40 33 55
.709	.65108	75,9	.75901	65,1	.81363	50,6	.88025	37,3	40 37 21
0.710	0.65183	75,8	0.75836	65,2	9.81414	50,5	9.87988	37,3	40 40 48
.711	.65259	75,8	·75771	65,3	.81464	50,4	.87950	37,4	40 44 14
.712	.65335	75,7	.75706	65,3	.81515	50,3	.87913	37,5	40 47 40
.713 .714	.65411	75,6 75,6	.75640 .75575	65,4 65,5	.81565 .81615	50,2 50,1	.87838	37,6 37,6	40 51 06
0.715	0.65562	75,5	0.75509	65,6	9.81665	50,0	9.87800	37,7	40 57 59
.716	.65637	75,4	.75444	65,6	.81715	49,9	.87762	37,8	41 01 25
.717	.65713	75,4	.75378	65,7	.81765	49,8	.87724	37,9	41 04 51
.718 .719	.65788	75,3 75,2	.75312 .75246	65,8 65,9	.81815 .81864	49,7 49,6	.87687 .87649	37,9 38,0	41 08 18
								-	, ,,
0.720 .72I	0.65938 .66014	75,2 75,1	0.75181	65,9 66,0	9.81914	49,5 49,4	9.87611	38,1 38,2	41 15 10 41 18 36
.722	.66089	75,0	75049	66,1	.82013	49.3	87534	38,2	41 22 03
.723	.66164	75,0	74982	66,2	.82062	49,2	87496	38,3	41 25 29
.724	.66239	74,9	.74916	66,2	.82111	49,1	.87458	38,4	41 28 55
0.725	0.66314	74,8	0.74850	66,3	9.82160	49,0	9.87419	38,5	41 32 21
.726	.66388	74,8	.74784	66,4	.82209 .82258	48,9	.87381	38,6	41 35 48
.727 .728	.66463	74,7 74,7	.74717 .74651	66,5 66,5	.82307	48,8 48,7	.87342	38,6 38,7	41 39 14 41 42 40
.729	.66612	74,6	74584	66,6	.82356	48,6	.87265	38,8	41 46 07
0.730	0.66687	74,5	0.74517	66,7	9.82404	48,5	9.87226	38,9	41 49 33
.731	.66761	74,5	·74451	66,8	.82453	48,4	.87187	38,9	41 52 59
.732	.66836 .66910	74,4	74384	66,8	.82501	48,3	.87148	39,0	41 56 25
·733 ·734	.66984	74,3 74,3	.74317 .74250	66,9 67,0	.82549 .82597	48,2 48,1	.87070	39,1 39,2	41 59 52 42 03 18
0.735	0.67059	74,2	0.74183	67,1	9.82646	48,0	9.87030	39,3	42 06 44
.736	.67133	74,1	.74116	67,1	.82694	47,9	86991	39,3	42 10 10
•737	.67207	74,0	74049	67,2	.82741	47,9	.86952	39,4	42 13 37
.738 .739	.67281	74,0 73,9	.73982 .73914	67,3 67,4	.82789	47,8 47,7	.86912 .86873	39,5 39,6	42 17 03 42 20 29
0.740	0.67429	73,8	0.73847	67,4	9.82885	47,6	9.86833	39,7	42 23 55
.741	.67503	73,8	•73779	67,5	.82932	47,5	.86794	39.7	42 27 22
.742	.67576	73,7	73712	67,6	.82979	47,4	.86754	39,8	42 30 48
•743	.67650	73,6	.73644	67,7	83027	47,3	.86714	39,9	42 34 14
•744	.67724	73,6	•73577	67,7	.83074	47,2	.86674	40,0	42 37 41
0.745 .746	0.67797 .67871	73,5 73,4	0.73509 ·73441	67,8 67,9	9.83121	47,1 47,0	9.86634 .86594	40,0 40,1	42 41 07 42 44 33
747	.67944	73,4	73373	67,9	.83215	46,9	.86554	40,1	42 44 33
748	.68017	73,3	73305	68,0	.83262	46,8	.86513	40,3	42 51 26
•749	.68091	73,2	.73237	68,1	.83309	46,7	.86473	40,4	42 54 52
0.750	0.68164	73,2	0.73169	68,2	9.83355	46,6	9.86433	40,5	42 58 18
u	- i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	logsinh iu	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

Ī	u	sin u	ω F <sub>0</sub> ′	ços u	ω F <sub>0</sub> ′	log sín u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
-	-				<u>j </u>			<del>procedure</del> –	- · ·	Augustania I
	0.750	o.68164	73,2	0.73169	68,2	9.83355	46,6	9.86433	40,5	42°58′ 18.60
1.	.751	.68237	73,1	.73101	68,2	.83402	46,5	.86392	40,5	43 01 44.87
	.752	.68310	73,0	.73032 .72964	68,3 68,4	.83448 .83495	46,4 46,3	.86352 .86311	40,6	43 05 11.13 43 08 37.40
	•753 •754	.68456	73,0 72,9	.72896	68,5	.83541	46,2	.86270	40,7 40,8	43 12 03.66
	0 555	0.68529	<b>50.0</b>	0 70807	68 =	9.83587	46.0	0 96220	40.0	12 75 20 02
1	0.755 .756	.68602	72,8 72,8	0.72827 .72759	68,5 68,6	.83633	46,2 46,1	9.86229 .86188	40,9 40,9	43 15 29.93 43 18 56.19
	•757	.68674	72,7	.72690	68,7	.83679	46,0	.86147	41,0	43 22 22.46
	.758	.68747	72,6	.72621	68,7 68,8	.83725	45,9	.86106	41,1	43 25 48.72
-	•759	.68820	72,6	73552		.83771	45,8	.86065	41,2	43 29 14.99
1	0.760	0.68892	72,5	0.72484	68,9	9.83817	45,7	9.86024	41,3	43 32 41 25
	.761 .762	.68965	72,4 72,3	.72415 .72346	69,0 69,0	.83863 .83908	45,6 45,5	.85983 .85941	41,4 41,4	43 36 07.52 43 39 33.78
ŀ	.763	.69109	72,3	.72277	69,1	.83954	45,4	.85900	41,5	43 43 00 05
1	.764	.69182	72,2	.72207	69,2	.83999	45,3	.85858	41,6	43 46 26 31
	0.765	0.69254	72,I	0.72138	69,3	9.84044	45,2	9.85817	41,7	43 49 52.58
1	.766 .767	.69326	72,1 72,0	.72069 .72000	69,3 69,4	.84089 .84135	45,I 45,I	.85775 .85733	41,8 41,9	43 53 18.84 43 56 45 11
ĺ	.768	69470	71,9	.71930	69,5	.84180	45,0	.85691	41,9	44 00 II.37
	769	.69542	71,9	.71861	69,5	.84225	44,9	.85649	42,0	44 03 37.64
	0.770	0.69614	71,8	0.71791	69,6	9.84269	44,8	9.85607	42,1	44 07 03.90
1	.771	.69685	71,7	.71721	69,7	.84314	44,7	.85565	42,2	44 10 30 17
1	.772 .773	.69757	71,7	.71652	69,8 69,8	.84359 .84403	44,6 44,5	.85523 .85480	42,3 42,4	44 13 56 43 44 17 22 70
1	•774	69900	71,5	.71512	69,9	.84448	44,4	.85438	42,5	44 20 48 96
-	0 777	0.69972	77.4	0.71442	70,0	9.84492		9.85395	42,5	44 24 15 22
	0.775 .776	.70043	71,4 71,4	.71372	70,0	.84536	44,3 44,3	.85353	42,5	44 27 41 49
l	.777	.70114	71,3	.71302	70,1	.84581	44,2	.85310	42,7	44 31 07 75
	.778	70186	71,2	.71232 .71162	70,2 70,3	.84625	44,I 44,0	.85267	42,8 42,9	44 34 34 02 44 38 00 28
	· <i>77</i> 9	1 56	71,2	.,1102		, -			4.50	
١	0.780 .781	0.70328	71,1	0.71091	70,3	9.84713	43,9 43,8	9.85182	43,0	44 41 26.55 44 44 52.81
١	.782	.70399	71,0 71,0	.71021 .70951	70,4 70,5	84800	43,7	85096	43,0 43,1	44 48 19.08
1	.783	.70541	70,9	.70880	70,5	.84844	43,6	.85052	43,2	44 51 45 34
l	.784	.70612	70,8	.70809	70,6	.84888	43,6	.85009	43,3	44 55 11.61
	0.785	0.70683	70,7	0.70739	70,7	9.84931	43,5	9.84966	43,4	44 58 37.87
1	. 786 . 787	.70753	70,7	70668	70,8 70,8	.84975 .85018	43,4 43,3	.84922	43,5 43,6	45 02 04.14 45 05 30.40
	.788	.70824	70,6	.70597	70,0	.85061	43,3	.84835	43,7	45 08 56.67
	.789	70965	70,5	.70456	71,0	.85104	43,1	.84792	43,7	45 12 22.93
	0.790	0.71035	70,4	0.70385	71,0	9.85147	43,0	9.84748	43,8	45 15 49.20
	.791	.71106	70,3	.70313	71,1	.85190	42,9	.84704	43,9	45 19 15.46
	.792	.71176 .71246	70,2 70,2	.70242	71,2 71,2	.85233 .85276	42,9 42,8	.84660	44,0 44,1	45 22 41.73 45 26 07.99
	• <i>7</i> 93 • <i>7</i> 94	.71316	70,2 70,1	.70100	71,3	.85319	42,7	.84572	44,2	45 29 34.26
	0.795	0.71386	70,0	0.70028	71,4	9.85362	42,6	9.84527	44,3	45 33 00.52
	.796	.71456	70,0	.60057	71,5	.85404	42,5	.84483	44,4	45 36 26.79 45 39 53.05
	797	.71526	69,9	.69886	71,5	.85447	42,4	.84439	44,4	45 39 53.05
	.798 .799	.71596 .71666	69,8	.69814	71,6 71,7	.85489 .85531	42,3 42,3	.84394 .84350	44,5 44,6	45 43 19.32 45 46 45.58
	0.800	0.71736	69,7	0.69671	71,7	9.85573	42,2	9.84305	44,7	45 50 11.84
	u	– i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh i</mark> u	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u
L			1	1. 777777	! <u> </u>	1 1	1		de Kalamar bellion	Latin Services

u ,	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.800	0.71736	69,7	0.69671	71,7	9.85573	42,2	9.84305	44.7	45 50 11.84
.801	.71805	69,6	.69599	71,8	.85616	42,I	.84260	44,8	45 53 38.11
.802	.71875	69,5	.69527	71,9	.85658	42,0	.84215	44,9	45 57 04.37
.803 .804	.71944 .72014	69,5 69,4	.69455 .69383	71,9 72,0	.85700 .85742	41,9 41,8	.84170 .84125	45,0 45,1	46 00 30.64 46 03 56.90
facing to									
0.805 .806	0.72083	69,3 69,2	0.69311	72,I 72,2	9.85783 .85825	41,8 41,7	9.84080	45,2 45,3	46 07 23.17 46 10 49.43
807	.72222	69,2	.69167	72,2	.85867	41,6	.83990	45,3	46 14 15.70
.808	.72291	69,1	.69095	72,3	85908	41,5	83944	45,4	46 17 41.96
.809	.72360	69,0	.69022	72,4	.85950	41,4	.83899	45,5	46 21 08.23
0.810 118.	0.72429	68,9 68,9	0.68950 .68877	72,4	9.85991 .86032	41,3 41,3	9.83853	45,6 45,7	46 24 34 49 46 28 00 76
.812	.72498 .72556	68,8	68805	72,5 72,6	85074	41,2	.83762	45,8	46 31 27.02
.813	.72535	68,7	.68732	72,6	.86115	41,1	.83716	45,9	46 34 53.29
.814	72704	68,7	.68660	72,7	.86156	41,0	83670	46,0	46 38 19.55
0.815	0.72773	68,6	o.68587	72,8 72,8	9.86197	40,9	9.83624	46,1 46,2	46 41 45.82 46 45 12.08
.816 .817	.72841 .72910	68,5 68,4	.68514 .68441	72,0	.85238 .85278	40,8 40,8	.83578 .83532	46,2 46,3	46 48 38.35
.818	72978	68,4	.68368	73,0	.85319	40,7	.83485	46,4	46 52 04.61
.819	.73046	68,3	.68295	73,0	.86360	40,6	.83439	46,5	46 55 30.88
0.820	0.73115	68,2	0.68222	73,I	9.86400	40,5	9.83393	46,5	46 58 57.14
.821 .822	.73183	68,1 68,1	.68149 .68076	73,2 73,3	.86441 .85481	40,4 40,4	.83346	46,6 46,7	47 <b>02 23.</b> 41 47 05 49.67
.823	.73319	68,0	68002	73,3	.86522	40,3	.83252	46,8	47 09 15 94
.824	.73387	67,9	.67929	73,4	.86562	40,2	.83206	46,9	47 12 42.20
0.825	0.73455	67,9	0.67856	73,5	9.86602	40,1	9.83159	47,0	47 16 08.47
.826 .827	73523	67,8 67,7	.67782 .67709	73,5 73,6	.86642 .86682	40,0 40,0	.83112 .83064	47,1 47,2	47 I9 34 73 47 23 00 99
.828	.73590 .73658	67,6	.67635	73,7	.86722	39,9	.83017	47,3	47 26 27.26
.829	.73726	67,6	.67561	73,7	.86762	39,8	.82970	47,4	47 29 53 52
0.830	0.73793	67,5	0.67488	73,8	9.86802	39,7	9.82922	47,5	47 33 19.79
.831 .832	.73861 .73928	67,4 67,3	.67414 .67340	73,9 73,9	.86841 .85881	39,6 39,6	.82875 .82827	47 <b>,</b> 6 47,7	47 36 46.05 47 40 12.32
.833	·73995	67,3	.67266	74,0	85920	39,5	.82779	47,8	47 43 38 58
.834	.74062	67,2	.67192	74,1	.86960	39,4	.82732	47,9	47 47 04.85
0.835	0.74130	67,1	0.67118	74,1	9.86999	39,3	9.82684	48,0	47 50 31.11
.836 .837	.74197 .74264	67,0 67,0	.66969	74,2 74,3	.87038	39,2 39,2	.82636 .82588	48,1 48,2	47 53 57 38 47 57 23 64
.838	.74331	66,9	.66895	74,3	.87117	39,1	.82539	48,3	48 00 49.91
.839	.74398	66,8	.66821	74,4	.87156	39,0	.82491	48,4	48 04 16.17
0.840	0.74464	66,7	0.66746	74,5	9.87195	38,9	9.82443	48,5	48 07 42 44
.841	.74531	66,7	66672	74,5	.87234	38,8	.82394	48,5	48 11 08.70
.842 .843	.74598 .74664	66,6	.66597 .66523	74,6 74,7	.87273 .87311	38,8 38,7	.82346 .82297	48,6 48,7	48 14 34.97 48 18 01.23
.844	.74004	66,4	.66448	74,7	.87350	38,6	.82248	48,8	48 21 27.50
0.845	0.74797	66,4	0.66373	74,8	9.87388	38,5	9.82199	48,9	48 24 53.76
.846	.74863	66,3	.66298	74,9	.87427	38,5	.82150	49,0	48 28 20.03
.847 .848	.74930 .74996	66,2 66,1	.66223 .66148	74,9 75,0	.87465 .87504	38,4 38,4	.82101 .82052	49,1 49,2	48 31 46.29 48 35 12.56
.849	.75062	66,1	.66073	75,1	.87542	38,2	.82003	49,2	48 38 38.82
0.850	0.75128	66,0	0.65998	75,1	9.87580	38,2	9.81953	49,4	48 42 05.09
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> ′	u

Circular Functions.												
U .	sin u	ω F <sub>0</sub> ′	cos u	ω <b>F</b> 0′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u			
0.850	0.75128	66,0	0.65998	75,1	9.87580	38,2	9.81953	40.4	48°42'07'00			
.851	.75194	65.0	65923	75,2	.87618	38,1	81904	49,4 49,5	48 42 <b>05.0</b> 9 48 45 31.35			
.852	.75260	65,9 65,8	.65848	75,3	.87656	38,0	.81854	49,6	48 48 57.61			
.853	.75326	65,8	.65773	75,3	87694	37,9	.81805	49,7	48 52 23.88			
.854	·75391	65,7	.65697	75,4	.87732	37,8	.81755	49,8	48 55 50.14			
0.855	0.75457	65,6	0.65622	75,5	9.87770	37,8	9.81705	49,9	48 59 16.41			
.856	.75523	65,5	.65546	75.5	.87808	37.7	.81655	50,0	49 02 42.67			
.857	.75588	65,5	.65471	75,6	.87845	37,6	.81605	50,1	49 06 08.94			
.858	75654	65,4	.65395	75,7	.87883	37,5	.81555	50,2	49 09 35.20			
.859	75719	65,3	.65320	75,7	.87920	37,5	.81504	50,3	49 13 01.47			
0.860	0.75784	65,2	0.65244	75,8	9.87958	37,4	9.81454	50,4	49 16 27.73			
.861	75849	65,2	.65168	75,8	87995	37,3	.81403	50,5	49 19 54.00			
.863	.75915	65,1 65,0	.65092 .65016	75,9 76,0	.88033	37,2	.81353	50,7	49 23 20.26			
.864	76045	64,9	.64940	76,0	.88107	37,2 37,1	.81302	50,8 50,9	49 26 46.53 49 30 12.79			
					Stanton Section				49 30 12.79			
0.865 .866	0.76110	64,9 64,8	0.64864 .64788	76,1 76,2	9.88144 .88181	37,0 36,9	9.81200	51,0 51,1	49 33 39.06			
.867	76239	64,7	.64712	76,2	.88218	36,9	.81008		[40 37 05.32] [40 40 31.59]			
.868	76304	64,6	.64635	76,3	.88255	36,8	.81047		49 43 57.85			
.869	.76368	64,6	.64559	76,4	.8829ĭ.	36,7	<b>.</b> 80995 j		49 47 24.12			
0.870	0.76433	64,5	0.64483	76,4	9.88328	36,6	9.80944	51,5	49 50 50.38			
.871	.76497	64,4	.64406	76,5	.88365	36,6	.80893	51,6	49 54 16.65			
.872	.76562	64,3	.64330	76,6	.88401	36,5	.80841	51,7	49 57 42 91			
.873	.76626	64,3	.64253	76,6	.88438	36,4	.80789	51,8	50 01 <b>0</b> 9.18			
.874	76690	64,2	.64176	76,7	.88474	36,3	.80738	51,9	50 04 35.44			
0.875	0.76754	64,1	0.64100	76,8	9.88510	36,3	9.80686	52,0	50 08 01.71			
.876	.76818	64,0	.64023	76,8	.88547	36,2	.80634	52,1	50 11 27.97			
.877 .878	.76882 .76946	63,9 63,9	.63946 .63869	76,9 76,9	.88583 .88619	36,1 36,0	.80581 .80529	52,2	50 14 54.24 50 18 20.50			
.879	77010	63,8	.63792	77,0	.88655	36,0	.80329	52,3 52,4	50 21 46.76			
					11.0			NAME OF THE PORT OF THE				
0.880	0.77074	63,7 63,6	0.63715 .63638	77,1	9.88691 .88727	35,9 35,8	9.80424 .80372	52,5	50 25 13.03 50 28 39.29			
.882	.7720I	63,6	.63561	77,1 77,2	88762	35,8	.80372	52,6 52,7	50 20 39.29 50 32 <b>0</b> 5 .56			
.883	.77265	63,5	.63484	77,3	88798	35.7	.80266	52,9	50 35 31.82			
.883 .884	.77328	63,4	.63406	77,3	.88834	35,7 35,6	.80213	53,0	50 38 58.09			
0.885	0.77391	63,3	0.63329	77,4	9.88869	35,5	9.85160	53,1	50 42 24.35			
.886	•77455	63,3	.63252	77,5	88905	35.5	.80107	53.2	50 45 50.62			
.887	.77518	63,2	.63174	77,5	.88940	35.4	80054	53.3	50 49 16.88			
.888	.77581	63,1	.63096	77,6	.88976	35,3	10001	53.4	50 52 43 15			
.889	.77644	63,0	.63019	77,6	189011	35,2	•79947	53,5	50 56 09.41			
0.890	0.77707	62,9	0.62941	77,7	9.89046	35,2	9.79894	53,6	50 59 35.68 51 03 01.94			
.891	.77770	62,9 62,8	.62863	77,8	.89081		.79840	53,7	51 03 01 94			
.892 .893	.77833 .77896	62,8 62,7	.62786 .62708	77,8	.89116 .89151	35,0	.79786	53,8	\$1 06 28.21 \$1 09 54 47			
.894	77958	62,6	.62630	77.9 78,0	.89186	35,0 34,9	.79732 .79678	53,9 54,1	51 09 54 47 51 13 20 74			
0.895	0.78021	62,6	0.62552	78,0	9.89221	34,8	9.79624	* [ 1,844.40 ]	51 16 47.00			
,896	78083	62,5	62474	78,I	.80256	34,6 34,7	79570	54,2 54,3	51 20 13 27			
.897	.78146	62,4	.62396	78,1	.89291	34.7	79515	54,4	51 23 39 53			
.898	.78208	62,3	.62318	78,2	.89325	34,6	.79461	54,5	51 27 05.80			
.899	.78270	62,2	.62239	78,3	.8936 <b>0</b>	34,5	.79406	54,6	<b>5</b> 1 30 32.06			
0.900	0.78333	62,2	0.62161	78,3	9.89394	34,5	9. <i>7</i> 9352	54,7	51 33 58.33			
e u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω <b>F</b> <sub>0</sub> ′	log <sup>sinh lu</sup>	ω Ε./	log cosh iu	-ω·F <sub>0</sub> / '				
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0.900         0.78333         62,2         0.62161         78,3         9.89394         34,5         9.79352         54,7           .901         .78395         62,1         .62083         78,4         .89429         34,4         .79297         54,8           .902         .78457         62,0         .62004         78,5         .89463         34,3         .79242         55,0           .903         .78519         61,9         .61926         78,5         .89497         34,3         .79187         55,1           .904         .78581         61,8         .61847         78,6         .89532         34,2         .79132         55,2           0.905         0.78643         61,8         .61690         78,7         .89606         34,1         9.79077         55,3           .906         .78704         61,7         .61690         78,7         .89600         34,0         .79021         55,4           .907         .7866         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6	51 33 58.33 51 37 24.59 51 40 50.86 51 44 17.12 51 47 43.38 51 51 09.65 51 54 35.91 51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77 52 22 06.03
.901         .78395         62,1         .62083         78,4         .89429         34,4         .79297         54,8           .902         .78457         62,0         .62004         78,5         .89463         34,3         .79242         55,0           .903         .78519         61,9         .61926         78,5         .89497         34,3         .79187         55,1           .904         .78581         61,8         .61847         78,6         .89532         34,2         .79132         55,2           0.905         0.78643         61,8         0.61769         78,6         9.89566         34,1         9.79071         55,3           .906         .78766         61,6         .61690         78,7         .89600         34,0         .79021         55,4           .908         .78827         61,5         .61532         78,8         .89688         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78855         55,8           0.910         0.78950         61,4         0.61375         79,0         .89735         33,8         9.78799         55,9	51 37 24.59 51 40 50.86 51 44 17.12 51 47 43.38 51 51 09.65 51 54 35.91 51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.902         .78457         62,0         .62004         78,5         .89463         34,3         .79242         55,0           .903         .78519         61,9         .61926         78,5         .89497         34,3         .79187         55,1           .904         .78581         61,8         .61847         78,6         .89532         34,2         .79132         55,2           0.905         0.78643         61,8         0.61769         78,6         9.89566         34,1         9.79077         55,3           .906         .78704         61,7         .61690         78,7         .89600         34,0         .79021         55,4           .907         .78766         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78855         55,8           0.910         0.78950         61,4         0.61375         79,0         9.89735         33,8         9.78799         55,9	51 40 50.86 51 44 17.12 51 47 43.38 51 51 09.65 51 54 35.91 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.903         .78519         61,9         .61926         78,5         .89497         34,3         .79187         55,1           .904         .78581         61,8         .61847         78,6         .89532         34,2         .79132         55,2           0.905         0.78643         61,8         0.61769         78,6         9.89566         34,1         9.79077         55,3           .906         .78704         61,7         .61690         78,7         .89600         34,0         .79021         55,4           .907         .78766         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78855         55,8           0.910         0.78950         61,4         0.61375         79,0         9.89735         33,8         9.78799         55,9           .911         .79012         61,3         .61296         79,0         .89769         33,7         .7843         56,0	51 47 43.38 51 51 09.65 51 54 35.91 51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.904         .78581         61,8         .61847         78,6         .89532         34,2         .79132         55,2           0.905         0.78643         61,8         0.61769         78,6         9.89566         34,1         9.79077         55,3           .906         .78704         61,7         .61690         78,7         .89600         34,0         .79021         55,4           .907         .78766         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78855         55,8           0.910         0.78950         61,4         0.61375         79,0         9.89735         33,8         9.78799         55,9           .911         .79012         61,3         .61296         79,0         .89769         33,7         .7843         56,0           .912         .79073         61,2         .61217         79,1         .89836         33,6         .78687         56,1	51 51 09.65 51 54 35.91 51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.906         .78704         61,7         .61690         78,7         .89600         34,0         .79021         55,4           .907         .78766         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78555         55,8           0.910         0.78950         61,4         0.61375         79,0         9.89735         33,8         9.78799         55,9           .911         .79012         61,3         .61296         79,0         .89769         33,7         .7843         56,0           .912         .79073         61,2         .61217         79,1         .89803         33,6         .78687         56,1           .913         .79134         61,1         .61058         79,2         .89870         33,5         .78574         56,3           0.915         0.79256         61,0         0.60979         79,3         9.89903         33,4         9.78518         56,4	51 54 35.91 51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.907         .78766         61,6         .61611         78,8         .89634         34,0         .78966         55,5           .908         .78827         61,5         .61532         78,8         .89668         33,9         .78910         55,6           .909         .78889         61,5         .61453         78,9         .89702         33,8         .78855         55,8           0.910         0.78950         61,4         0.61375         79,0         9.89735         33,8         9.78799         55,9           .911         .79012         61,3         .61296         79,0         .89769         33,7         .7843         56,0           .912         .79073         61,2         .61217         79,1         .89803         33,6         .78687         56,1           .913         .79134         61,1         .61058         79,2         .89870         33,5         .78574         56,3           0.915         0.79256         61,0         0.60979         79,3         9.89903         33,4         9.78518         56,4	51 58 02.18 52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.908     .78827     61,5     .61532     78,8     .89668     33,9     .78910     55,6       .909     .78889     61,5     .61453     78,9     .89702     33,8     .78855     55,8       0.910     0.78950     61,4     0.61375     79,0     9.89735     33,8     9.78799     55,9       .911     .79012     61,3     .61296     79,0     .89769     33,7     .78743     56,0       .912     .79073     61,2     .61217     79,1     .89803     33,6     .78687     56,1       .913     .79134     61,1     .61137     79,1     .89836     33,6     .78631     56,2       .914     .79195     61,1     .61058     79,2     .89870     33,5     .78574     56,3       0.915     0.79256     61,0     0.60979     79,3     9.89903     33,4     9.78518     56,4	52 01 28.44 52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.909     .78889     61,5     .61453     78,9     .89702     33,8     .78855     55,8       0.910     0.78950     61,4     0.61375     79,0     9.89735     33,8     9.78799     55,9       .911     .79012     61,3     .61296     79,0     .89769     33,7     .78743     56,0       .912     .79073     61,2     .61217     79,1     .89803     33,6     .78687     56,1       .913     .79134     61,1     .61137     79,1     .89836     33,6     .78631     56,2       .914     .79195     61,1     .61058     79,2     .89870     33,5     .78574     56,3       0.915     0.79256     61,0     0.60979     79,3     9.89903     33,4     9.78518     56,4	52 04 54.71 52 08 20.97 52 11 47.24 52 15 13.50 52 18 39.77
.911     .79012     61,3     .61296     79,0     .89769     33,7     .78743     56,0       .912     .79073     61,2     .61217     79,1     .89803     33,6     .78687     56,1       .913     .79134     61,1     .61137     79,1     .89836     33,6     .78631     56,2       .914     .79195     61,1     .61058     79,2     .89870     33,5     .78574     56,3       0.915     0.79256     61,0     0.60979     79,3     9.89903     33,4     9.78518     56,4	52 11 47.24 52 15 13.50 52 18 39.77
.911     .79012     61,3     .61296     79,0     .89769     33,7     .78743     56,0       .912     .79073     61,2     .61217     79,1     .89803     33,6     .78687     56,1       .913     .79134     61,1     .61137     79,1     .89836     33,6     .78631     56,2       .914     .79195     61,1     .61058     79,2     .89870     33,5     .78574     56,3       0.915     0.79256     61,0     0.60979     79,3     9.89903     33,4     9.78518     56,4	52 11 47.24 52 15 13.50 52 18 39.77
.913 .79134 61,1 .61137 79,1 .89836 33,6 .78631 56,2 .914 .79195 61,1 .61058 79,2 .89870 33,5 .78574 56,3 0.915 0.79256 61,0 0.60979 79,3 9.89903 33,4 9.78518 56,4	52 15 13.50 52 18 39.77
.913 .79134 61,1 .61137 79,1 .89836 33,6 .78631 56,2 .914 .79195 61,1 .61058 79,2 .89870 33,5 .78574 56,3 0.915 0.79256 61,0 0.60979 79,3 9.89903 33,4 9.78518 56,4	
.914     .79195     61,1     .61058     79,2     .89870     33,5     .78574     56,3       0.915     0.79256     61,0     0.60979     79,3     9.89903     33,4     9.78518     56,4	52 22 06.03
	J J
	52 25 32.30
.916 .79317 60,9 .60900 79,3 .89937 33,3 .78462 56,6 .917 .79378 60,8 .60820 79,4 .80970 33,3 .78405 56,7	52 28 58.56
	52 32 24.83
.918   .79439   60,7   .60741   79,4   .90003   33,2   .78348   56,8   .019   .79500   60,7   .60662   79,5   .90036   33,1   .78291   56,9	52 35 51.09
	52 39 17.36
0.920 0.79560 60,6 0.60582 79,6 9.90070 33,1 9.78234 57,0 921 .79621 60,5 .60502 79,6 .90103 33,0 .78177 57,2	52 42 43.62 52 46 09.89
	52 40 09.69
.922   .79681   60,4   .60423   79,7   .90136   32,9   .78120   57,3   .923   .79742   60,3   .60343   79,7   .90168   32,9   .78063   57,4	52 49 30.15
.923 .79742 60,3 .60343 79,7 .90168 32,9 .78063 57,4 .924 .79802 60,3 .60263 79,8 .90201 32,8 .78005 57,5	52 56 28.68
0.925 0.79862 60,2 0.60183 79,9 9.90234 32,7 9.77948 57,6	52 59 54.95
.926   .79922   60,1   .60104   79,9   .90267   32,7   .77890   57,7	53 03 21.21
.927   .79982   60,0   .60024   80,0   .90299   32,6   .77832   57,9	53 06 47.48
.928   .80042   59,9   .59944   80,0   .90332   32,5   .77774   58,0	53 10 13.74
.929 .80102 59,9 .59864 80,1 .90364 32,5 .77716 58,1	53 13 40.01
0.930   0.80162   59,8   0.59783   80,2   9.90397   32,4   9.77658   58,2   931   .80222   59,7   .59703   80,2   .90429   32,3   .77600   58,4	53 17 06.27 53 20 32.53
	53 20 32.53 58.80
	53 27 25.06
.933   .80341   59,5   .59543   80,3   .90494   32,2   .77483   58,6   .934   .80400   59,5   .59462   80,4   .90526   32,1   .77424   58,7	53 30 51.33
0.935   0.80460   59,4   0.59382   80,5   9.90558   32,1   9.77365   58,8	53 34 17.59
.936   .80519   59,3   .59301   80,5   .90590   32,0   .77306   59,0	53 37 43.86
.937   .80579   59,2   .59221   80,6   .90622   31,9   .77247   59,1	53 41 10.12
.938   .80638   59,1   .59140   80,6   .90654   31,9   .77188   59,2	53 44 36.39
.939 .80697 59,1 .59060 80,7 .90686 31,8 .77129 59,3	53 48 02.65
0.940 0.80756 59,0 0.58979 80,8 9.90717 31,7 9.77070 59,5	53 51 28.92
.941 .80815 58,9 .58898 80,8 .90749 31,7 .77010 59,6	53 54 55.18
.942 .80874 58,8 .58817 80,9 .90781 31,6 .76950 59,7	53 58 21.45
.943 .80932 58,7 .58736 80,9 .90812 31,5 .76891 59,8	54 01 47.71
.944 .80901 58,7 .58655 81,0 .90844 31,5 .76831 60,0	54 05 13.98
0.945 0.81050 58,6 0.58574 81,0 9.90875 31,4 9.76771 60,1	54 08 40.24
.946 .81108 58,5 .58493 81,1 .90906 31,3 .76711 60,2	54 12 06.51
.947 .81167 58,4 .58412 81,2 .90938 31,3 .76650 60,3	54 15 32.77
. 948   .81225   58,3   .58331   81,2   .90969   31,2   .76590   60,5   .949   .81283   58,2   .58250   81,3   .91000   31,1   .76529   60,6	54 18 59.04
	54 22 25.30
0.950 0.81342 58,2 0.58168 81,3 9.91031 31,1 9.76469 60,7	54 25 51.57
$u = -i \sinh iu \omega F_0' \cosh iu \omega F_0' \log \sinh iu \omega F_0' \log \cosh iu \omega F_0'$	u
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MITHSONIAN TABLES	The transfer and section of the section of

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u	sin u	ω F <sub>0</sub> ′	cos u	ω <b>F</b> 0′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
0.950	0.81342	58,2	0.58168	81,3	9.91031	31,1	9.76469	60,7	54 25 51.5
.951	.81400	58,1	.58087	81,4	.91062	31,0	76408	60,9	54 29 17.8
.952	.81458	58,0	58006	81,5	.91093	30,9	.76347	61,0	54 32 44.10
•953	.81516	57,9	.57924	81,5	.91124	30,9	.76286	61,1	54 36 10.3
954	.81574	57,8	.57842	81,6	.91155	30,8	.76225	61,2	54 39 36.6
0.955 .956	0.81631	57,8	0.57761	81,6 81,7	9.91186	30,7	9.76163	61,4	54 43 02.8
957	.81747	57,7 57,6	57679	81,7	.91210	30,7 30,6	76040	61,5 61,6	54 46 29.1 54 49 55.4
.958	.81804	57,5	·57597 ·57516	81,8	.91278	30,5	75979	61,8	54 53 21.6
959	.81862	57,4	•57434	81,9	.91308	30,5	75917	61,9	54 56 47.9
0.960	0.81919	57,4	0.57352	81,9	9.91339	30,4	9.75855	62,0	55 00 14.2
.961	0.81976	57,3	.57270	82,0	.91369	30,3	-75793	62,2	55 03 40.4
.962	.82034	57,2	.57188	82,0	.91399	30,3	·75731	62,3	55 07 06.74
.963 .964	.82091 .82148	57,1 57,0	.57106	82,1 82,1	.91429 .91460	30,2 30,1	75668	62,4 62,6	55 10 33.0 55 13 59.2
0.965	0.82205	56,9	0.56942	82,2	9.91490	30,1	9.75543	62,7	55 17 25.54
.966	.82262	56,9	.56859	82,3	.91520	30,0	.75480	62,8	55 20 51.80
.967	.82319	56,8	.56777	82,3	.91550	29,9	.75417	63,0	55 24 18.0
.968	.82375	56,7	.56695	82,4	.91580	29,9	-75354	63,1	55 27 44.3
.969	.82432	56,6	.56612	82,4	.91610	29,8	.75291	63,2	55 31 10.6
0.970	0.82489	56,5	0.56530	82,5	9.91639	29,8	9.75228	63,4	55 34 36.80
.971 .972	.82545 .82601	56,4 56,4	.56447 .56365	82,5 82,6	.91669	29,7 29,6	.75164	63,5 63,6	55 38 03.1, 55 41 29.3
.972	.82658	56,3	56282	82,7	.91099	29,6 29,6	75037	63,8	55 44 55.60
.974	.82714	56,2	.56200	82,7	.91758	29,5	•74973	63,9	55 48 21.9
0.975	0.82770	56,1	0.56117	82,8	9.91787	29,4	9.74909	64,1	55 51 48.19
.976	.82826	56,0	.56034	82,8	.91817	29,4	.74845	64,2	55 55 14.4
•977	.82882	56,0	55951	82,9	.91846	29,3	.74781	64,3	55 58 40.72
.978 .979	.82938 .82994	55,9 55,8	.55868	82,9 83,0	.91875	29,2 29,2	.74717	64,5 64,6	56 02 06.98 56 05 33.2
0.980	0.83050	55,7	0.55702	83,0	9.91934	29,1	9.74587	64,8	56 o8 59.5
.981	.83105	55,6	.55619	83,1	.91963	29,1	.74522	64,9	56 12 25.7
.982	.83161	55,5	.55536	83,2	.91992	29,0	•74457	65,0	56 15 52.04
.983	.83216	55,5	•55453	83,2	.92021	28,9	.74392	65,2	56 19 18 30
984	.83272	55,4	•55370	83,3	92050	28,9	.74327	65,3	56 22 44 5;
0.985 .986	0.83327	55,3	0.55286	83,3	9.92079	28,8	9.74262	65,5	56 26 10.8
.987	.83382 .83438	55,2 55,1	.55203	83,4 83,4	.92107 .92136	28,8 28,7	.74196 .74131	65,6 65,7	56 29 37.10
.988	.83493	55,0	.55036	83,5	.92165	28,6	74065	65,9	56 33 03.36 56 36 29.65
.989	.83548	55,0	•54953	83,5	.92193	28,6	.73999	66,0	56 39 55.80
0.990	0.83603	54,9	0.54869	83,6	9.92222	28,5	9.73933	66,2	56 43 22.16
.991	.83657	54,8	54785	83,7	.92250	28,4	.73866	66,3 66,5	56 46 48.42
•992 •993	.83712 .83767	54,7 54,6	.54702 .54618	83,7 83,8	.92279	28,4 28,3	.73800	66.6	56 50 14.69
994	.83821	54,0 54,5	•54534	83,8	.92335	28,3	·73734 ·73667	66,6 66,8	56 53 40.95 56 57 07.22
0.995	0.83876	54,5	0.54450	83,9	9.92364	28,2	9.73600	66,9	57 00 33.48
.996	.83930	54,4	.54366	83,9	.92392	28,1	.73533	67,0	57 03 59.73
.997	.83985	54,3	.54282	84,0	.92420	28,1	.73466	67,2	57 07 26.01
.998	.84039 .84093	54,2 54,1	.54198 .54114	84,0 84,1	.92448 .92476	28,0 27,9	.73399 .73331	67,3 67,5	57 10 52.28 57 14 18.54
1.000	0.84147	54,0	0.54030	84,1	9.92504	27,9	9.73264	67,6	57 17 44.81
u	- i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	ш
1.000	0.84147	54,0	0.54030	84,1	9.92504	27,9	9.73264	67,6	57°17′44″.81
.001	.84201 .84255	53,9 53,9	.53946 .53862	84,2 84,3	.92532	27,8 27,8	.73196	67,8 67,9	57 21 11.07 57 24 37.34
.002	.84309	53,8	53778	84,3	.92587	27,7	73060	68,1	57 28 03.60
.004	.84363	53,7	53693	84,4	.92615	27,6	.72992	68,2	57 31 29.87
1.005 .006	0.84416	53,6 53,5	0.53609 -53524	84,4 84,5	9.92643	27,6 27,5	9.72924	68,4 68,5	57 34 56.13 57 38 22.40
.007	.84523	53,4	53440	84,5	92698	27,5	72787	68.7	57 41 48.66
.008	.84577	53,4	-53355	84,6	.92725	27,4	.72718	68,8	57 45 14.92
.009	.84630	53,3	.53271	84,6	.92752	27,3	.72649	69,0	57 48 41.19
1.010	0.84683	53,2	0.53186	84,7	9.92780	27,3	9.72580	69,1 69,3	57 52 07.45
.0II .0I2	.84736 .84789	53,1 53,0	.53101 .53017	84,7 84,8	.92834	27,2 27,2	.72511 .72441	69,5	57 55 33 72 57 58 59 98
.013	.84842	52,9	52932	84,8	.92861	27,1	.72372	69,6	58 02 26.25
.014	.84895	52,8	.52847	84,9	.92888	27,0	.72302	69,8	58 05 52.51
1.015	0.84948 .85001	52,8	0.52762 .52677	85,0 85,0	9.92915	27,0 26,9	9.72232	69,9 70,1	58 09 18.78 58 12 45.04
.010	.85053	52,7 52,6	52592	85,1	.92969	26,9	.72002	70,2	58 16 11.31
810.	.85106	52,5	.52507	85,1	.92996	26,8	.72022	70,4	58 19 37.57
.019	.85158	52,4	.52422	85,2	.93023	26,7	.71951	70,6	58 23 03.84
1.020	0.85211	52,3	0.52337	85,2	9.93049	26,7 26,6	9.71881	70,7	58 26 30.10
.02I .022	.85263 .85315	52,3 52,2	.52251 .52166	85,3 85,3	.93076	26,6 26,6	.71810	70,9 71,0	58 29 56.37 58 33 22.63
.023	.85367	52,1	.52081	85,4	.93129	26,5	.71668	71,2	58 36 48.90
.024	.85419	52,0	.51995	85,4	.93156	26,4	.71596	71,3	58 40 15.16
1.025	0.85471	51,9	0.51910	85,5	9.93182	26,4 26,3	9.71525	71,5	58 43 41.43
.026 .027	.85523 .85575	51,8 51,7	.51824	85,5 85,6	.93208 .93235	26,3 26,3	.71453	71,7 71,8	58 47 07.69 58 50 38.96
.028	85627	51,7	.51653	85,6	.93261	26,2	.71310	72,0	58 54 00.22
.029	.85678	51,6	.51568	85,7	.93287	26,1	.71238	72,2	58 57 26.49
1.030	0.85730	51,5	0.51482	85,7	9.93313	26,1	9.71165	72,3	59 00 52.75
.031	.85781 .85833	51,4 51,3	.51396 .51310	85,8 85,8	93339 93365	26,0 26,0	.71093	72,5 72,6	59 04 19.02 59 07 45.28
.032	.85884	51,2	51224	85,9	.93391	25,9	.70948	72,8	59 11 11.54
.034	.85935	51,1	.51139	85,9	.93417	25,8	70875	73,0	59 14 37.81
1.035	0.85986	51,1	0.51053	86,0	9.93443	25,8	9.70802	73,1	59 18 04.07
.036	.86037 .86088	51,0 50,9	.50967 .50881	86,0 86,1	93499	25,7 25,7	.70729 .70655	73,3 73,5	59 21 30.34 59 24 56.60
.038	.86139	50,8	50794	86,1	.93520	25,6	.70582	73,6	59 28 22.87
.039	.86190	50,7	.50708	86,2	.93546	25,6	.70508	73,8	59 31 49.13
1.040	0.86240	50,6	0.50622	86,2	9.93571	25,5	9.70434	74,0	59 35 15.40
.041	86241	50,5	.50536 .50449	86,3 86,3	.93597 .93622	25,4	.70360 .70286	74,2	59 38 41.66 59 42 07.93
.042	.86341 .86392	50,4 50,4	.50363	86,4	.93647	25,4 25,3	70211	74,3 74,5	
.044	.86442	50,3	.50277	86,4	.93673	25,3	.70137	74,7	59 49 00.46
1.045	0.86492	50,2	0.50190	86,5	9.93698	25,2	9.70062	74,8	59 52 26.72
.046	.86543	50,1	.50104	86,5 86,6	.93723	25,I	69987	75,0	59 55 52.99
.047	.86593 .86643	50,0 49,9	.50017	86,6	.93748 .93773	25,1 25,0	.69912 .69837	75,2 75,4	59 59 19.25 60 02 45.52
.048	.86693	49,8	.49844	86,7	.93798	25,0	.69761	75,5	60 06 11.78
1.050	0.86742	49,8	0.49757	86,7	9.93823	24,9	9.69686	75,7	60 09 38.05
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> ′	u

I	u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
	1.050 .051 .052 .053	0.86742 .86792 .86842 .86891 .86941	49,8 49,7 49,6 49,5 49,4	0.49757 .49670 .49584 .49497 .49410	86,7 86,8 86,8 86,9 86,9	9.93823 .93848 .93873 .93898 .93922	24,9 24,9 24,8 24,7 24,7	9.69686 .69610 .69534 .69458 .69381	75,7 75,9 76,1 76,2 76,4	60°09′38.05 60°13°04.31 60°16′30.58 60°19′56.84 60°23°23.11
	1.055 .056 .057 .058	0.86990 .87039 .87088 .87138 .87187	49,3 49,2 49,1 49,1 49,0	0.49323 .49236 .49149 .49062 .48974	87,0 87,0 87,1 87,1 87,2	9.93947 .93972 .93996 .94021 .94045	24,6 24,6 24,5 24,5 24,4	9.69305 .69228 .69151 .69074 .68997	76,6 76,8 77,0 77,1 77,3	60 26 49.37 60 30 15.64 60 33 41.90 60 37 08.17 60 40 34.43
	1.060	0.87236	48,9	0.48887	87,2	9.94069	24,3	9.68920	77,5	60 44 00.69
	.061	.87284	48,8	.48800	87,3	.94094	24,3	.68842	77,7	60 47 26.96
	.062	.87333	48,7	.48713	87,3	.94118	24,2	.68764	77,9	60 50 53.22
	.063	.87382	48,6	.48625	87,4	.94142	24,2	.68686	78,0	60 54 19.49
	.064	.87430	48,5	.48538	87,4	.94166	24,1	.68608	78,2	60 57 45.75
	1.065	0.87479	48,5	0.48450	87,5	9.94190	24,1	9.68530	78,4	61 01 12.02
	.066	.87527	48,4	.48363	87,5	.94214	24,0	.68451	78,6	61 04 38.28
	.067	.87576	48,3	.48275	87,6	.94238	23,9	.68373	78,8	61 08 04.55
	.068	.87624	48,2	.48188	87,6	.94262	23,9	.68294	79,0	61 11 30.81
	.069	.87672	48,1	.48100	87,7	.94286	23,8	.68215	79,2	61 14 57.08
	1.070	0.87720	48,0	0.48012	87,7	9.94310	23,8	9.68135	79,3	61 18 23.34
	.071	.87768	47,9	.47925	87,8	.94334	23,7	.68056	79,5	61 21 49.61
	.072	.87816	47,8	.47837	87,8	.94357	23,7	.67976	79,7	61 25 15.87
	.073	.87864	47,7	.47749	87,9	.94381	23,6	.67896	79,9	61 28 42.14
	.074	.87911	47,7	.47661	87,9	.94405	23,6	.67816	80,1	61 32 08.40
	1.075 .076 .077 .078 .079	0.87959 .88007 .88054 .88101 .88149	47,6 47,5 47,4 47,3 47,2	0.47573 .47485 .47397 .47309 .47221	88,0 88,1 88,1 88,1	9.94428 .94451 .94475 .94498 .94522	23,5 23,4 23,4 23,3 23,3	9.67736 .67656 .67575 .67191 .67414		61 35 34.67 61 39 00.93 61 42 27.20 61 45 53.46 61 49 19.73
	1.080	0.88196	47,1	0.47133	88,2	9.94545	23,2	9.67332	81,3	61 52 45.99
	.081	.88243	47,0	.47045	88,2	.94568	23,2	.67251	81,5	61 56 12.26
	.082	.88290	47,0	.46956	88,3	.94591	23,1	.67169	81,7	61 59 38.52
	.083	.88337	46,9	.46868	88,3	.94614	23,0	.67088	81,9	62 03 04.79
	.084	.88384	46,8	.46780	88,4	.94637	23,0	.67006	82,1	62 06 31.05
	1.085	0.88430	46,7	0.46691	88,4	9.94660	22,9	9.66924	82,3	62 09 57.31
	.086	.88477	46,6	.46603	88,5	.94683	22,9	.66841	82,5	62 13 23.58
	.087	.88524	46,5	.46514	88,5	.94706	22,8	.66759	82,7	62 16 49.84
	.088	.88570	46,4	.46426	88,6	.94729	22,8	.66676	82,9	62 20 16.11
	.089	.88616	46,3	.46337	88,6	.94751	22,7	.66593	83,1	62 23 42.37
	1.090	o.88663	46,2	0.46249	88,7	9.94774	22,7	9.66510	83,3	62 27 08.64
	.091	.88709	46,2	.46160	88,7	.94797	22,6	.66426	83,5	62 30 34.90
	.092	.88755	46,1	.46071	88,8	.94819	22,5	.66343	83,7	62 34 01.17
	.093	.88801	46,0	.45982	88,8	.94842	22,5	.66259	83,9	62 37 27.43
	.094	.88847	45,9	.45894	88,8	.94864	22,4	.66175	84,1	62 40 53.70
	1.095	o.88893	45,8	0.45805	88,9	9.94887	22,4	9.66091	84,3	62 44 19.96
	.096	.88939	45,7	.45716	88,9	.94909	22,3	.66007	84,5	62 47 46.23
	.097	.88984	45,6	.45627	89,0	.9493 <sup>1</sup>	22,3	.65922	84,7	62 51 12.49
	.098	.89030	45,5	.45538	89,0	.94954	22,2	.65837	84,9	62 54 38.76
	.099	.89075	45,4	.45449	89,1	.94976	22,2	.65752	85,1	62 58 05.02
	1.100	0.89121	45,4	0.45360	89,1	9.94998 logsinh iu	22,I	9.65667	85,3	63 01 31.29
l	Uşansıs	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	1 109	ω F <sub>0</sub> ′	1og cosh iu	ω F <sub>0</sub> ′	u

u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> /	u
		,		<del></del>				مغيف	
1.100	0.89121	45,4	0.45360	89,1	9.94998	22,1	9.65667	85,3	63 01 31.29
.101	.89166	45,3	.45270	89,2	.95020	22,0	.65581	85,5	63 04 57.55
.102	.89211	45,2	.45181	89,2	.95042	22,0	.65496	85,8	63 08 23.82
.103	.89256	45,1	.45092	89,3	.95064	21,9	.65410	86,0	63 11 50.08
.104	.89301	45,0	.45003	89,3	.95086	21,9	.65324	86,2	63 15 16.35
1.105	0.89346	44,9	0.44913	89,3	9.95108	21,8	9.65238	86,4	63 18 42.61
.106	.89391	44,8	.44824	89,4	.95130	21,8	.65151	86,6	63 22 08.88
107	.89436	44,7	•44735	89,4	.95151	21,7	.65064	86,8	63 25 35.14
.108	.89481 .89525	44,6 44,6	.44645 .44556	89,5 89,5	.95173 .95195	21,7 21,6	.64977 .64890	87,0 87,3	63 29 01.41
-				Troping			9.64803	87,5	63 35 53.93
1.110	0.89570 .89614	44,5 44,4	0.44466 44377	89,6 89,6	9.95216 .95238	21,6 21,5	.64715	87,7	63 39 20.20
.112	.89659	44,4	.44287	89,7	.95259	21,5	.64628	87.0	63 42 46.46
.113	.89703	44,2	.44197	89,7	.95281	21,4	64540	87,9 88,1	63 46 12.73
.114	.89747	44,1	.44108	89,7	.95302	21,3	.64451	88,4	63 49 38.99
1.115	0.89791	44,0	0.44018	89,8	9.95323	21,3	9.64363	88,6	63 53 05.26
.116	.89835	43,9	.43928	89,8	.95345	21,2	.64274	88,8	63 56 31.52
.117	.89879	43,8	.43838	89,9	.95366	21,2	.64185	89,0	63 59 57 79
.118	.89923	43,7	.43748	89,9	.95387	21,1	.64096	89,3	64 03 24.05
.119	.89966	43,7	.43658	90,0	.95408	21,1	.64007	89,5	64 06 50 32
1.120	0.90010	43,6	0.43568	90,0	9.95429	21,0	9.63917	89,7	64 10 16.58
.121	.90054	43,5	.43478	90,1	.95450	21,0	.63827	90,0	64 13 42.85
.122	.90097	43,4	.43388 .43298	90,1	.95471	20,9 20,9	.63737	90,2 90,4	64 17 09 11
. 123 . 124	.90140	43,3 43,2	.43298	90,1 90,2	.95492 .95513	20,8	63556	90,4	64 24 01.64
•						_			
1.125	0.90227	43,1	0.43118	90,2	9.95534	20,8 20,7	9.63466 .63375	90,9 91,1	64 27 27.91
.126 .127	.90270	43,0 42,9	.43027 .42937	90,3 90,3	•95554 •95575	20,7	63283	91,3	64 34 20.44
.128	.90356	42,8	.42847	90,3	.95596	20,6	.63192	91,6	64 37 46.70
.129	.90398	42,8	.42756	90,4	.95616	20,5	.63100	91,8	64 41 12.97
1.130	0.90441	42,7	0.42666	90,4	9.95637	20,5	9.63008	92,1	64 44 39.23
.131	.90484	42,6	.42576	90,5	.95657	20,4	.62916	92,3	64 48 05.50
.132	.90526	42,5	.42485	90,5	.95678	20,4	.62824	92,5	64 51 31.76
.133	.90569	42,4	•42394	90,6	.95698	20,3	.62731 .62638	92,8	64 54 58.03 64 58 24.29
.134	.90611	42,3	.42304	90,6	.95718	20,3	-	93,0	
1.135	0.90653	42,2	0.42213	90,7	9.95738	20,2	9.62545	93,3	65 01 50.56
.136	.90696	42,1	.42123	90,7	•95759	20,2	.62451	93,5	65 05 16.82
.137	.90738	42,0	.42032	90,7	•95779	20,1	,62358 .62264	93,8	65 08 43.08
.138	.90780	41,9 41,9	.41941 .41850	90,8 90,8	.95799 .95819	20,I 20,0	.62170	94,0 94,2	65 15 35.61
.139		_						•	
1.140	0.90863	41,8	0.41759	90,9	9.95839	20,0	9.62075	94,5	65 19 01 .88
.141	.90905	41,7	.41669	90,9	.95859	19,9	.61981	94,7	65 22 28.14
.142	.90947	41,6 41,5	.41578 .41487	90,9 91,0	.95879 .95899	19,9 19,8	.61791	95,0 95,2	65 29 20.67
.143 .144	.91030	41,5	.41407	91,0	.95918	19,7	.61695	95,5	65 32 46.94
1.145	0.91071	41,3	0.41305	91,1	9.95938	19,7	9.61600	95,8	65 36 13.2C
.146	.91112	41,2	.41214	91,1	.95958	19,6	.61504	96,0	65 39 39.47
.147	.91153	41,1	.41122	91,2	•95977	19,6	.61408	96,3	65 43 05.73
.148	.91195	41,0	.41031	91,2	•95997	19,5	.61311	96,5	65 46 32.00
.149	.91235	40,9	.40940	91,2	.96016	19,5	.61215	96,8	65 49 58.26
1.150	0.91276	40,8	0.40849	91,3	9.96036	19,4	9.61118	97,0	65 53 24.53
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> '	u ·
	1	1		1	1	1	( ·	J	

				Circuia	r Functi	ons.			
и	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
1.150	0.91276	40,8	0.40849	91,3	9.96036	19,4	9.61118	07.0	65 53 24.53
.151	.91317	40,8	40757	91,3	.96055	19,4	.61021	97,0 97,3	65 56 50.79
.152	.91358	40,7	.40666	91,3	96075	19,3	.60923	97,6	66 00 17.06
153	.91399	40,6	.40575	91,4	96094	19,3	60826	97,8	66 03 43.32
154	.91439	40,5	.40483	91,4	.96113	19,2	60728	98,1	66 07 09.59
1.155	0.91479	40,4	0.40392	91,5	9.96132	19,2	9.60629	98,4	66 10 35.85
.156	.91520	40,3	.40300	91,5	.96152	19,1	.60531	98,6	66 14 02.12
.157	.91560	40,2	.40209	91,6	.96171	19,1	.60432	98,9	66 17 28.38
. 158	.91600	40,1	.40117	91,6	.96190	19,0	.60333	99,2	66 20 54.65
.159	.91640	40,0	.40026	91,6	.96209	19,0	.60234	99,4	66 24 20.91
1.160	0.91680	39,9	0.39934	91,7	9.96228	18,9	9.60134	99,7	66 27 47.18
.161	.91720	39,8	.39842	91,7	.96246	18,9	.60034	100,0	66 31 13.44
.162	.91760	39,8	39751	91,8	.96265	18,8	•59934	100,3	66 34 39.70
. 163	.91800	39.7	39659	91,8	.96284	18,8	.59834	100,5	66 38 05.97
. 164	.91839	39,6	.39567	91,8	.96303	18,7	•59733	100,8	66 41 32.23
1.165	0.91879	39,5	0.39475	91,9	9.96322	18,7	9.59632	101,1	66 44 58.50
.166	.91918	39,4	· <b>3</b> 9383	91,9	.96340	18,6	.59531	101,4	66 48 24.76
. 167	.91958	39,3	.39291	92,0	.96359	18,6	59430	101,6	66 51 51.03
.168	.91997	39,2	39199	92,0	96377	18,5	59328	101,9	66 55 17.20
.169	.92036	39,1	.39107	92,0	.96396	18,5	.59226	102,2	66 58 43.56
1.170	0.92075	39,0	0.39015	92,1	9.96414	18,4	9.59123	102,5	67 02 09.82
.171	.92114	38,9	.38923	92,1	.96433	18,4	.59021	102,8	67 05 36.00
.172	.92153	38,8	.38831	92,2	.96451	18,3	.58918	103,1	67 09 02.35
.173	.92192	38,7 38,6	.38739 .38647	92,2 92,2	.96469 .96487	18,2 18,2	.58815	103,4 103,6	67 12 28.62 67 15 54.88
1.175	0.92269	38,6	0.38554	92,3	9.96506	18,1	9.58607	103,9	67 19 21.15
.176	.92307	38,5	38462	92,3	.96524	18,1	.58503	104,2	67 22 47.4
.177	.92346	38,4	38370	92,3	.96542	18,0	58399	104,5	67 26 13.68
.178	.92384	38,3	.38277	92,4	.96560	18,0	.58294	104,8	67 29 39.94
. 179	.92422	38,2	.38185	92,4	.96578	17,9	.58189	105,1	67 33 06.21
1.180	0.92461	38,1	0.38092	92,5	9.96596	17,9	9.58084	105,4	67 36 32.47
. 181	92499	38,0	.38000	92,5	.96614	17,8	57978	105,7	67 39 58.74
. 182	.92537	37,9	.37907	92,5	.9663 <sup>1</sup>	17,8	.57872	106,0	67 43 25.00
. 183	.92574	37,8	.37815	92,6	.96649	17,7	.57766	106,3	67 46 51.27
. 184	.92612	37,7	.37722	92,6	.96667	17,7	.57660	106,6	67 50 17.53
1.185	0.92650	37,6	0.37630	92,6	9.96684	17,6	9.57553	106,9	67 53 43.80
.186	.92687	37,5	•37537	92,7	.96702	17,6	.57446	107,2	67 57 10.00
. 187	.92725	37,4	•37444	92,7	.96720	17,5	•57339	107,5	68 00 .36 .33
. 188	.92762	37,4	•37352	92,8	.96737	17,5	.57231	107,9	68 04 02.59
. 189	.92800	37,3	.37259	92,8	96755	17,4	.57123	108,2	68 07 28.8
1.190	0.92837	37,2	0.37166	92,8	9.96772	17,4	9.57015	108,5	68 10 55.12
. 191	.92874	37,1	37073	92,9	.96789	17,3	.56906	108,8	68 14 21.38
.192	.92911	37,0	.36980	92,9	.96807	17,3	56797	109,1	68 17 47.6
. 193 . 194	.92948	36,9 36,8	.36887 .36794	92,9 93,0	.96824	17,2 17,2	.56688	109,4	68 21 13.91 68 24 40.18
		36,7	3.23,70		9.96858		9.56468		68 28 06.4
1.195	0.93022	30,7 36,6	0.36701 .36608	93,0 93,1	.96875	17,1 17,1		110,1 110,4	68 31 32.7
197	.93056	36,5	.36515	93,1 93,1	.96893	17,0	.56247	110,4	68 34 58.97
.198	.93093	36,4	36422	93,1	.96910	17,0	.56137	111,0	68 38 25.2
.199	.93168	36,3	.36329	93,2	.96927	16,9	.56025	111,4	68 41 51.50
1.200	0.93204	36,2	0.36236	93,2	9.96943	16,9	9.55914	111,7	68 45 17.7
u	-i sinh lu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub> /	e de de la U

u	sin u	ω Fo'	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> /	log cos u	ω F <sub>0</sub> ′	. u
<del>,</del> ,	-			أحبا	1	-		-	-
1.200	0.93204	36,2	0.36236	93,2	9.96943	16,9	9.55914	111,7	68 45 17.77
.201	.93240		.36143	93,2	96960	16,8	.55802	112,0	100 40 44.03
.202	.93276		.36049	93,3	.96977	16,8	.55690		68 52 10.30
.203	.93312		.35956	93,3	.96994	16,7	•55577	112,7	68 55 36.56
.204	.93348	35,9	.35863	93,3	.97011	16,7	•55464	113,0	68 59 02.83
1.205	0.93384		0.35769	93,4	9.97027	16,6	9.55351	113,4	69 02 29.09
.206 .207	.93420		35676	93,4	.97044	16,6	•55237	113,7	69 05 55.36
.208	•93455 •93491		.35582	93,5	.97060	16,5 16,5	.55124	114,1	69 09 21.62
209	.93526		35395	93,5	.97093	16,4	.55009	114,4	69 12 47.89 69 16 14.15
1.210	0.93562	35,3	0.35302	93,6	9.97110	16,4	9.54780	115,1	69 19 40.42
.211	93597		.35208	93,6	.97126	16,3	54665	115,5	69 23 06.68
.212	.93632	35,1	•35115	93,6	.97142	16,3	54549	115,8	69 26 32.95
.213	.93667	35,0	.35021	93.7	.97159	16,2	•54433	116,2	69 29 59.21
.214	.93702	34,9	•34927	93,7	97175	16,2	•54317	116,5	69 33 25.47
1.215	0.93737	34,8	0.34834	93.7	9.97191	16,1	9.54200	116,9	69 36 51.74
.216 .217	.93772 .93806	34,7 34,6	.34740 .34646	93,8 93,8	.97207	16,1	.54083	117,2	69 40 18.00
.218	.93841	34,6	34552	93,8	.97223	16,0 16,0	.53965 .53848	117,6	69 43 44.27
.219	.93876	34,5	.34458	93,9	.97255	15,9	.53730	118,3	69 47 10.53 69 50 36.80
1.220	0.93910	34,4	0.34365	93,9	9.97271	15,9	9.53611	118,7	69 54 03.06
.221	-93944	34,3	.34271	93,9	.97287	15,8	.53492	119,1	69 57 29.33
.222	.93978	34,2	.34177	94,0	.97303	15,8	53373	119,4	70 00 55.59
.223	.94013	34,1	34083	94,0	97319	15,7	.53253	119,8	70 04 21.86
.224	.94047	34,0	.33989	94,0	•97334	15,7	•53133	120,2	70 07 48.12
1.225 .226	0.94081	33,9	0.33895	94,1	9.97350	15,6	9.53013	120,5	70 II 14.39
.220	.94114	33,8	.33800	94,1	.97366	15,6	.52892	120,9	70 14 40 65
.228	.94182	33,7 33,6	.33706 .33612	94,1 94,2	.97381	15,5	.52771	121,3	70 18 06.92
229	.94215	33,5	.33518	94,2	.97397	15,5 15,5	.52650	121,7 122,1	70 21 33.18 70 24 59.44
1.230	0.94249	33,4	0.33424	94,2	9.97428	15,4	9.52406	122,5	70 28 25.71
.231	.94282	33,3	.33330	94,3	97443	15,4	.52283	122,9	70 31 51.98
232	.94316	33,2	-33235	94,3	.97458	15,3	.52160	123,2	70 35 18.24
233	•94349	33,1	.33141	94,3	•97474	15,3	. 52036	123,6	70 38 44.51
.234	.94382	33,0	33047	94,4	.97489	15,2	.51913	124,0	70 42 10.77
1.235 .236	0.94415	33,0	0.32952	94,4	9.97504	15,2	9.51788	124,4	70 45 37.04
.237	.94448 .94481	32,9 32,8	.32858 .32763	94,4 94,5	.97519	15,1	.51664	124,8	70 49 03 30
.238	.94513	32,7	.32669	94,5	97534 97549	15,1 15,0	.51539	125,2 125,6	70 52 29.57
.239	.94546	32,6	.32574	94,5	.97564		.51287	126,1	70 55 55.83 70 59 22.09
1.240	0.94578	32,5	0.32480	94,6	9.97579	14,9	9.51161	126,5	71 02 48.36
.241	.9461/I	32,4	. 32385	94,6	97594	14,9	.51034	126,9	71 06 14.62
.242	.94643	32,3	.32290	94,6	.97609	14,8	.50007	127,3	71 09 40.89
.243	.94675	32,2	.32196	94,7	.97624	14,8	.50780	127,7	71 13 07.15
.244	94708	32,1	.32101	94,7	.97638	14,7	.50652	128,1	71 16 33.42
1.245	0.94740	32,0	0.32006	94,7	9.97653	14,7	9.50524	128,6	71 19 59.68
.246	.94772	31,9	.31912	94,8	.97668	14,6	50395	129,0	71 23 25.95
.247	.94803	31,8	.31817	94,8	.97682	14,6	50266	129,4	71 26 52.21
.248	.94835 .94867	31,7 31,6	.31722	94,8 94,9	.97697	14,5 14,5	.50136 .50006		71 30 18.48 71 33 44.74
1.250	0.94898	31,5	0.31532	94,9	9.97726	1	9.49875		71 37 11.01
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω <b>F</b> <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> ′	log ooch !:	ω F <sub>0</sub> ′	
- [		- 0	000.1 IM	• 0		₩ 1 <sup>-</sup> 0	log cosh lu	₩ F0.	u

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u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>9</sub> ′	log cos u	ω F <sub>0</sub> ′	u 
1.250	0.94898	31,5	0.31532	94,9	9.97726	<b>I</b> 4,4	9.49875	130,7	71 37 II
.251	94930	31,4	.31437	94,9	.97740	14,4	49745	131,1	71 40 37
.252	.94961	31,3	.31342	95,0	·97755	14,3	.49613	131,6	71 44 03
.253	•94993	31,2	.31247	95,0	.97769	14,3	.49481	132,0	71 47 29
.254	.95024	31,2	.31152	95,0	•97783	14,2	•49349	132,5	<b>71 50 5</b> 6
1.255	0.95055	31,1	0.31057	95,1	9.97797	14,2	9.49216	132,9	7I 54 22
.256	.95086	31,0	.30962	95,1	.97812	14,1	.49083	133,4	71 57 48
.257	.95117	30,9	30867	95,1	97826	14,1	.48950 .48816	133,8	72 OI 14
.258	.95148 .95178	30,8 30,7	.30772 .30677	95,1 95,2	97854	14,0 14,0	.48681	134,3 134,7	72 04 41 72 08 07
1.260	0.95209	30,6	0.30582	95,2	9.97868	13,9	9.48546	135,2	72 II 33
.261	.95240	30,5	.30486	95,2	97882	13,9	.48411	135,7	72 14 59
.262	.95270	30,4	.30391	95,3	97895	13,9	.48275	136,1	72 18 26
.263	.95300	30,3	.30296	95,3	.97909	13,8		136,6	72 21 52
.264	95331	30,2	.30201	95,3	.97923	13,7	.48002	137,1	72 25 18
1.265	0.95361	30,1	0.30105	95,4	9.97937	13,7	9.47864	137,6	72 28 44
.266	.95391	30,0	.30010	95,4	.97951	13,7	.47726	138,0	72 32 11
.267 .268	.95421	29,9	.29914	95,4	.97964	13,6	.47588	138,5	72 35 37
.269	.95451	29,8 29,7	.29819	95,5 95,5	.97978 .97991	13,6 13,5	.47449 .47310	139,0	72 39 03 72 42 30
		si kalawa					l	. N. 3 - 5 2 5	
1.270 .271	.95540	29,6 29,5	0.29628 29533	95,5 95,5	9.98005	13,5 13,4	9.47170	140,0	72 45 56 72 49 22
.272	.95569	29,3	.29437	95,6	98032	13,4	.46889	141,0	72 52 48
.273	95599	29,3	.29341	95,6	.98045	13,3	46748	141,5	72 56 15
.274	.95628	29,2	.29246	95,6	98058	13,3	.46606	142,0	72 59 41
1.275	0.95657	29,2	0.29150	95,7	9.98072	13,2	9.46464	142,5	73 03 07
.276	.95686	29, I	.29054	95,7	.98085	13,2	.46321	143,0	73 06 33
.277	.95715	29,0	.28959	95,7	.98098	13,1	.46178	143,5	73 10 00
.278	•95744	28,9	.28863	95,7	.98111	13,1	46034	144,1	73 13 20
.279	•95773	28,8	.28767	95,8	.98124	13,0	.45890	144,6	73 16 52
1.280 .281	0.95802	28,7 28,6	0.28672	95,8 95,8	9.98137	13,0 13,0	9·45745 .45600	145,1 145,6	73 20 18
.282	.95859	28,5	.28480	95,9	.98163	12,9	45454	146,2	73 23 45 73 27 11
.283	.95887	28,4	28384	95,9	.98176	12,9	.45307	146,7	73 30 37
.284	.95916	28,3	.28288	95,9	.98189	12,8	.45160	147,3	73 34 04
1.285	0.95944	28,2	0.28192	95,9	9.98202	12,8	9.45013	147,8	73 37 30
.286	.95972	28,1	.28096	96,0	.98214	12,7	44865	148,3	73 40 56
.287	.96000	28,0	.28000	96,0	.98227	12,7	.44716	148,9	73 44 22
.288	.96028	27,9	27904	96,0	.98240	12,6	.44567	149,5	73 47 49
.289	.96056	27,8	.27808	96,1	.98252	12,6	.44417	150,0	73 51 15
1.290	0.96084 .96111	27,7	0.27712	96,1 96,1	9.98265 .98277	12,5	9.44267 .44116	150,6 151,1	73 54 41 73 58 07
.291 .292	.96139	27,6 27,5	.27520	96,1	.982//	12,5	.43965	151,7	74 OI 34
.292	.96166	27,3	.27424	96,2	.98302	12,4	.43813	152,3	74 05 00
.294	.96194	27,3	.27328	96,2	.98315	12,3	.43660	152,9	74 08 26
1.295	0.96221	27,2	0.27231	96,2	9.98327	12,3	9.43507	153,5	74 11 52
.296	.96248	27,1	.27135	96,2	.98339	12,2	•43353	154,0	74 15 19
.297	.96275	27,0	.27039	96,3	.98351	12,2	.43199	154,6	74 18 45
.298	96302	26,9	26943	96,3	.98364	12,2	43044	155,2	74 22 11
299	.96329	26,8	.26846	96,3	.98376	12,1	.42888	155,8	74 25 37
1.300	0.96356	26,7	0.26750	96,4	9.98388	12,1	9.42732	156,4	74 29 04
		<u>. ^</u>	I	I	J	l	1		1

. 301		ſ		1	1	T		1		1
1.300	u	sin u	ω F₀′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	U
. 301	I.300	0.06356	26.7	0.26750	96.4	0.08388	12,1	9,42732	156.4	74 29 04.2
.302 .95400 .2666 .26557 .6541 .98412 1120 .42418 157.7 74 35 56.3 .304 .96402 .264 .26364 .96.5 .98436 11.9 .42260 138.9 74 42 49.2 1.305 0.96488 .26.3 0.26268 .96.5 .9.8436 11.9 .42102 138.9 74 42 49.2 1.305 0.96488 .26.3 0.26268 .96.5 .9.8437 11.8 9.41042 159.5 74 49 15.8 .306 .96515 .26.2 .26171 95.5 .98436 11.9 .41042 159.5 74 49 15.8 .307 .96514 .2617 .26075 .965 .98437 11.7 .4162 150.8 74 59 31.8 .308 .96567 .260 .2.2978 .96.6 .98431 11.7 .41461 151.4 74 56 34.8 .309 .96593 .259 .25882 .96.6 .98438 11.7 .41461 151.4 74 56 34.8 .311 .96644 .25.7 .25688 .96.6 .98518 11.5 .40974 153.4 75 06 53.1 .312 .96694 .25.7 .25688 .96.6 .98518 11.5 .40974 153.4 75 06 53.1 .313 .96695 .25.5 .25495 .96.7 .98541 11.5 .40646 164.7 75 13 45.6 .314 .96721 .25.4 .25398 .96.7 .98529 11.5 .40810 164.0 75 10 10.4 .315 .0.96746 .25.3 0.25302 .96.7 .98541 11.5 .40646 164.7 75 13 45.6 .317 .96797 .25.1 .25108 .96.8 .98595 11.3 .30981 167.4 75 73 34 5.6 .318 .96822 .25.0 .2511 .95108 .96.8 .98595 11.3 .30981 167.4 75 73 34 5.6 .319 .96847 .249 .24914 .96.8 .98595 11.3 .30981 167.4 75 73 37 9.5 .320 .0.96872 .24.8 0.24818 .96.9 .98601 11.1 .93046 170.2 75 34 42.2 .321 .96901 .24.6 .24624 .96.9 .98601 11.1 .93046 170.2 75 34 42.2 .322 .90921 .24.6 .24624 .96.9 .98601 11.1 .93046 170.2 75 44 15.8 .322 .90921 .24.6 .24624 .96.9 .98601 10.9 .38792 172.4 75 51 34.6 .333 .97109 .24.9 .24914 .96.8 .98606 10.8 .33247 170.9 75 44 42.0 .323 .97001 .24.9 .24042 .97.1 .98790 10.9 .38619 173.1 75 55 0.8 .331 .97109 .23.8 .23759 .97.1 .98780 10.0 .37567 177.0 76 15 34.4 .333 .97109 .23.8 .23759 .97.1 .98780 10.0 .37567 177.0 76 15 34.4 .334 .97030 .23.1 .23069 .97.2 .98760 10.5 .37210 170.1 76 68 45.5 .331 .97109 .23.2 .23659 .97.2 .98760 10.5 .37210 170.1 76 68 45.5 .333 .97109 .23.8 .23759 .97.1 .98831 10.2 .33581 180.8 76 2.236.3 .330 .97250 .23.3 .23649 .97.3 .98831 10.0 .33581 180.7 76 2.236.3 .331 .97109 .23.8 .23649 .97.1 .98831 10.2 .33581 180.7 76 2.236.3 .333 .97304 .22.4 .22429 .9288 .97.1 .98831 10.2 .33581 180.7 76 50 31.3 .331 .9730	-					.98400		42575		
. 304										
1.304										
.306										74 42 49.3
308   .06547   .260   .25078   .96.5   .98471   .11.7   .41461   .161.4   .45   .53   .85   .309   .06593   .2599   .25882   .96.6   .98483   .11.5   .41461   .161.4   .47   .45   .34   .309   .60593   .2599   .25882   .96.6   .98494   .11.6   .41299   .162.1   .75   .00   .06.6   .311   .96644   .25.7   .25888   .96.6   .98526   .11.6   .40274   .163.4   .75   .00   .06.6   .311   .96644   .25.7   .25888   .96.6   .98520   .11.5   .40810   .164.0   .75   .10   .94   .313   .96695   .2555   .25495   .96.7   .98520   .11.5   .40810   .164.0   .75   .10   .94   .313   .96695   .2555   .25495   .96.7   .98522   .11.4   .40481   .165.4   .75   .13   .45   .311   .96721   .254   .25308   .96.7   .98522   .11.4   .40481   .165.4   .75   .75   .13   .45   .317   .96797   .25.1   .25108   .96.8   .98595   .11.3   .30981   .167.4   .75   .27   .30.7   .318   .96822   .25.0   .25011   .96.8   .98597   .11.2   .39814   .168.1   .75   .35   .5   .35	1.305									74 46 15.5
. 308   .06567   26,0   .25978   96,6   .98483   11,7   .41461   161,4   74   56   34.2   1.310   0.96618   25,8   0.25785   96,6   .98566   11,6   .41299   162,1   75   00   00.4   3.311   .96644   25,7   .25688   96,6   .98586   11,5   .40074   163,4   75   05   53.1   3.312   .96670   25,6   .25592   96,7   .98520   11,5   .40074   163,4   75   05   53.1   3.313   .96695   25,5   .25495   96,7   .98520   11,5   .40074   163,4   75   05   53.1   3.314   .96721   25,4   .25398   96,7   .98522   11,4   .40481   165,4   75   17   11.5   1.315   0.96746   25,3   0.25302   96,7   .98552   11,4   .40481   165,4   75   17   11.5   1.315   0.96746   25,3   0.25302   96,8   .98575   11,3   .39981   166,7   75   24   04,2   3.317   .96979   25,1   .25108   96,8   .98585   11,3   .39981   167,4   75   27   30.7   3.318   .96822   25,0   .25011   96,8   .98508   11,2   .39644   168,1   75   30   57.6   3.321   .96896   24,7   .24721   96,9   .98631   11,1   .39306   170,2   75   41   15.8   3.321   .96961   24,5   .24527   96,9   .98631   11,0   .39045   166,5   75   37   49.5   3.322   .96921   24,6   .24527   96,9   .98631   11,0   .39045   170,9   75   44   12.6   3.323   .99646   24,5   .24527   96,9   .98653   11,0   .38504   171,7   75   48   83.2   3.326   .97010   24,4   .24430   97,0   .98666   10,8   .38446   173,9   75   51   34.6   3.326   .97010   24,2   .24231   97,0   .98666   10,8   .38446   173,9   75   51   34.6   3.326   .97010   24,2   .24230   97,0   .98666   10,8   .38446   173,9   75   58   27.1   3.327   .97043   24,1   .24139   97,0   .98666   10,8   .38446   173,9   75   58   27.1   3.328   .97057   23,2   .24236   97,0   .98666   10,8   .38446   173,9   75   58   27.1   3.331   .97130   23,8   .23550   97,2   .98701   10,5   .37031   180,0   76   29   23.5   3.331   .97162   23,7   .24533   97,2   .98701   10,5   .37031   180,0   76   29   23.5   3.331   .97162   23,3   .22907   97,3   .98823   10,3   .36365   183,2   76   50   11.3   3.331   .97162   23,3   .22978   97,4   .98833   10,1   .355	<b>.30</b> 6									
1.300	. 307									
1.310	.308	.96567	26,0				11,7	.41461		
. 311	.309	.96593	25,9	.25882	96,6	.98494	11,6	.41299	162,1	75 00 00.6
.312 .96670 25,6 .25502 96,7 .98520 11,5 .40810 164,0 75 10 19,2,314 .96721 25,4 .25398 96,7 .98552 11,4 .40465 164,7 75 13 45,6 .314 .96721 25,4 .25398 96,7 .98552 11,4 .40465 165,7 75 17 11,5 .315 0.96746 25,3 0.25302 96,7 9.98563 11,4 .40465 166,7 75 20 38,2 .316 .96771 25,2 .25205 96,8 .98575 11,3 .40148 166,7 75 20 38,2 .316 .96721 25,1 .25108 96,8 .98585 11,3 .39981 166,7 75 24 04,4 .317 .96797 25,1 .25108 96,8 .98585 11,3 .39981 166,7 75 24 04,4 .318 .96822 25,0 .25011 96,8 .98597 11,2 .39814 168,1 75 30 57.6 .319 .96847 24,9 .24914 96,8 .98508 11,2 .39045 168,8 75 34 23,2 .321 .96896 24,7 .24721 96,9 .98631 11,1 .39306 170,2 75 41 24,2 .322 .96921 24,6 .24624 96,9 .98631 11,1 .39306 170,2 75 41 24,2 .323 .96946 24,5 .24527 96,9 .98653 11,0 .38964 177,7 75 48 68,3 .324 .96970 24,4 .24430 97,0 .98664 10,9 .38792 172,4 75 51 38,4 .324 .96970 24,4 .24430 97,0 .98664 10,9 .38792 172,4 75 51 38,2 .324 .96970 24,4 .24430 97,0 .98666 10,8 .38446 173,9 75 55 50.8 .326 .97019 24,2 .24632 97,1 .98707 10,8 .3807 175,3 76 05 19,6 .328 .97007 24,0 .24042 97,1 .98707 10,8 .3807 175,3 76 05 19,6 .328 .97007 24,0 .24042 97,1 .98708 10,7 .37921 174,6 76 01 53,3 .329 .97001 23,9 .23945 97,1 .98708 10,7 .37921 176,1 76 08 45-6 13,3 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .37507 177,6 76 15 38,4 .331 .97130 23,8 .23750 97,1 .98730 10,6 .33730 178,6 76 05 57,2 .333 .97186 23,6 .23556 97,2 .98701 10,5 .37501 180,0 76 25 57,2 .333 .97303 23,1 .23070 97,3 .98812 10,3 .33612 184,6 76 30 44,7 .3330 .97302 23,2 .23167 97,3 .							•			75 03 26.9
.313										
.314         .96721         25,4         .25398         96,7         .98552         II.4         .40481         I65,4         75 17 II.5           1.315         0.96746         25,3         0.25302         96,7         9.98563         II.4         9.40315         I66,1         75 20 38.2           .316         .96707         25,1         .25108         96,8         .98586         II.3         .40148         I66,7         75 24 04.4           .318         .96822         25,0         .25011         96,8         .98597         II.2         .39814         I68,1         75 24 30.4           .319         .96847         24,9         .24914         96,8         .98506         II.2         .39645         I68,8         75 34 23.2           .322         .96921         24,6         .24624         96,9         .98631         II.0         .39135         I70,9         75 44 15.8           .322         .96921         24,4         .24527         96,9         .98653         II.0         .38792         I72,4         75 34 9.5           .322         .96990         24,2         .24230         97,0         .98653         II.0         .38792         I72,4         75 58 27.1	-									
1.315										
316         .96771         25,2         .25205         96,8         .98585         11,3         .39081         166,7         75 24 04.4           .317         .96707         25,1         .25108         96,8         .98597         11,2         .39814         167,4         75 27 30.7           .319         .96847         24,9         .24914         96,8         .98597         11,2         .39814         168,1         75 30 57.6           .321         .96862         24,7         .24721         96,9         .98620         11,1         9.39476         169,5         75 37 49.5           .322         .96921         24,6         .24242         96,9         .98631         11,1         9.39476         169,5         75 41 15.6           .322         .96926         24,7         .24227         96,9         .98653         11,0         .38964         171,7         75 48 68.3           .324         .96970         24,4         .24430         97,0         .98675         10,9         .38619         173,1         75 55 0.8         88.2           1.325         .96960         24,2         .24236         97,0         .98675         10,9         .38619         173,1         75 55 0.8	.314	.90721	25,4	25398	90,7	.98552	11,4	.40481	105,4	75 17 11.9
. 317   .06707   .2511   .25108   .06.8   .08586   11,3   .39081   167,4   .75   .27   30 .7   .318   .96822   .25,0   .25011   .96,8   .98597   .11,2   .39814   .168,1   .75   .30   .57   .319   .96847   .24,91   .24,914   .96,8   .98608   .11,2   .39645   .168,8   .75   .30   .57   .32   .32   .96896   .24,7   .24,721   .96,9   .98631   .11,1   .39306   .170,2   .75   .41   .15.8   .321   .96896   .24,7   .24,721   .96,9   .98631   .11,1   .39306   .170,2   .75   .41   .15.8   .322   .96921   .24,6   .24,624   .24,527   .96,9   .98631   .11,0   .39135   .170,9   .75   .44   .24.3   .324   .96970   .24,4   .24,430   .97,0   .98664   .10,9   .38792   .172,4   .75   .51   .34.6   .327   .97043   .24,1   .24,139   .97,0   .98696   .10,8   .38446   .173,9   .75   .58   .27   .327   .97043   .24,1   .24,139   .97,0   .98696   .10,8   .38272   .174,6   .76   .15   .329   .97007   .24,0   .24,042   .97,1   .98707   .10,8   .38097   .175,3   .76   .05   .19,6   .329   .97001   .23,9   .23,945   .97,1   .98707   .08,8   .38227   .174,0   .76   .08   .331   .97139   .23,8   .23,750   .97,1   .98730   .10,6   .37389   .176,4   .76   .15   .34,6   .331   .97139   .23,8   .23,750   .97,1   .98730   .10,6   .37389   .176,4   .76   .15   .34,6   .334   .97209   .23,5   .23459   .97,2   .98760   .10,5   .37210   .179,2   .76   .23   .36   .333   .97186   .23,6   .23,556   .97,2   .98760   .10,5   .37201   .179,2   .76   .22   .30,6   .336   .97303   .23,1   .23070   .97,3   .98892   .10,3   .36851   .18,8   .76   .23   .36   .97256   .23,3   .23264   .97,3   .98892   .10,3   .36351   .18,4   .76   .34   .34   .97371   .22,8   .22778   .97,4   .98853   .10,1   .35505   .18,4   .76   .34   .34   .97391   .22,8   .22788   .97,4   .98853   .10,1   .35505   .18,9   .77   .03   .66   .344   .97439   .22,5   .22486   .97,4   .98853   .10,1   .35505   .18,9   .77   .03   .61   .344   .97526   .22,2   .22193   .97,5   .98903   .99   .34624   .19,0,8   .77   .03   .46   .344   .97550   .22,2   .22193   .97,5   .98903   .99   .34624   .										75 20 38.2
318         .96822         25,0         .25011         96,8         .98597         11,2         .30814         168,1         75 30 57.0           .319         .96847         24,9         .24914         96,8         .98608         11,2         .30615         168,8         75 34 23.2           1.320         .96896         24,7         .24721         96,9         .98631         11,1         .339306         170,2         75 37 49.5           .321         .96964         24,5         .24527         96,9         .98653         11,0         .39054         170,9         75 44 15.8           .323         .96946         24,5         .24527         96,9         .98653         11,0         .38604         171,7         75 48 08.3           .324         .96909         24,3         .24236         97,0         .98664         10,9         .38792         172,4         75 58 27.1           1.325         .97019         24,2         .24236         97,0         .98696         10,8         .38446         173,1         75 58 27.1           .328         .97007         24,0         .24042         97,1         .98767         10,8         .38097         175,3         76 51 9.2	-									
319				-					107,4	
1.320										
321       .96896       24,7       .24721       96,9       .98631       11,1       .39306       170,2       75 41 15.8         .322       .96946       24,5       .24527       96,9       .98653       11,0       .39135       170,9       75 44 22.0         .324       .96970       24,4       .24430       97,0       .98664       10,9       .38792       172,4       75 51 34.6         1.325       0.96904       24,3       0.24333       97,0       .98666       10,8       .38460       173,1       75 55 00.8         .326       .97019       24,2       .24236       97,0       .98696       10,8       .38446       173,9       75 58 27.1         .327       .97043       24,0       .24042       97,1       .98707       10,8       .38972       175,3       76 05 19.6         .332       .97091       23,9       .23945       97,1       .98708       10,7       .37921       176,1       76 08 45.9         1.330       0.97115       23,8       0.23848       97,1       .98739       10,6       .37379       177,6       76 12 12.1         .331       .97186       23,6       .2355       97,2       .98750       10,6	.319	.90847	24,9	.24914	90,8	.98008	11,2	39045	108,8	75 34 23.2
.322 .96921 24,6 .24624 96,9 .98642 11,0 .39135 170,9 75 44 42.6 .2324 .96970 24,4 .24430 97,0 .98664 10,9 .38792 172,4 75 51 34.6 .24430 97,0 .98664 10,9 .38792 172,4 75 51 34.6 .24430 97,0 .98664 10,9 .38792 172,4 75 51 34.6 .24430 97,0 .98686 10,8 .3846 173,9 75 58 27.1 .325 .97019 24,2 .24236 97,0 .98686 10,8 .38446 173,9 75 58 27.1 .327 .97043 24,1 .24139 97,0 .98696 10,8 .38272 174,6 76 01 53.4 .328 .97067 24,0 .24042 97,1 .98707 10,8 .38097 175,3 76 05 19.6 .329 .97091 23,9 .23945 97,1 .98707 10,8 .38097 175,3 76 05 19.6 .331 .97139 23,8 .23750 97,1 .98739 10,6 .37389 176,4 76 19 04,7 .3332 .97162 23,7 .23653 97,2 .98760 10,5 .37210 170,2 76 22 30.9 .334 .97209 23,5 .23459 97,2 .98760 10,5 .37210 170,2 76 22 30.9 .334 .97209 23,5 .23459 97,2 .98761 10,5 .37031 180,0 76 25 57.2 1.335 0.97233 23,4 0.23362 97,2 .98791 10,5 .37031 180,0 76 25 57.2 1.335 0.97233 23,1 .23070 97,3 .98802 10,3 .36487 182,4 76 39 42,7 .338 .97303 23,1 .23070 97,3 .98802 10,3 .36487 182,4 76 39 42,7 .339 .97305 23,0 .22973 97,3 .98802 10,3 .36487 182,4 76 39 42,3 .339 .97326 23,0 .22973 97,3 .98802 10,3 .36487 182,4 76 39 42,3 .339 .97326 23,0 .22973 97,3 .98812 10,3 .36487 182,4 76 39 42,3 .331 .97394 22,7 .22681 97,4 .98833 10,2 9.35937 184,8 76 46 34.8 .341 .97371 22,8 .22778 97,4 .98843 10,2 .355937 184,8 76 46 34.8 .341 .97371 22,8 .22778 97,4 .98843 10,2 .355937 184,8 76 46 34.8 .341 .97371 22,8 .22788 97,4 .98843 10,2 .355937 184,8 76 46 34.8 .341 .97371 22,6 .22881 97,4 .98853 10,1 .33556 185,7 76 55 01.1 .346 .97484 .22,3 .22919 97,5 .98893 9,9 .34813 189,9 77 07 12,4 .346 .97484 .22,3 .22919 97,5 .98893 9,9 .34813 189,9 77 07 12,4 .346 .97484 .22,3 .22919 97,5 .98893 9,9 .34813 189,9 77 07 12,4 .346 .97582 22,1 .22096 97,5 .98933 9,9 .34622 190,8 77 10 38.6 .344 .97550 22,0 .21998 97,6 .98933 9,9 .34046 193,5 77 00 19,9 .340 .97550 22,0 .21998 97,6 .98933 9,9 .34046 193,5 77 00 19,9 .340 .97550 22,0 .21998 97,6 .98933 9,9 .34046 193,5 77 00 57.4			24,8							75 37 49 5
.323         .96946         24,5         .24527         96,9         .98653         11,0         .38964         171,7         75 48 68.2         .324         .96970         24,4         .24430         97,0         .98664         10,9         .38792         172,4         75 51 34.6         13,25         0.96994         24,3         0.24333         97,0         .98686         10,8         .38460         173,1         75 58 27.1         .97019         24,2         .24236         97,0         .98686         10,8         .38461         173,1         75 58 27.1         .9701         .328         .97067         24,0         .24042         97,1         .98707         10,8         .38097         175,3         76 05 19.6         05 19.6         3827         174,6         76 01 53.4         76 05 19.6         332         .97091         23,9         .23945         97,1         .98718         10,7         .37921         176,1         76 08 45.9           1.330         0.97115         23,8         0.23848         97,1         .98739         10,6         .37897         177,6         76 12 12.1         179,1         76 15 38.4         10,7         177,6         76 15 38.4         10,7         177,6         76 15 38.4         10,7         177,6 <td></td> <td></td> <td></td> <td></td> <td></td> <td>.98031</td> <td>,</td> <td></td> <td></td> <td>,</td>						.98031	,			,
.324       .96970       24,4       .24430       97,0       .98664       10,9       .38792       172,4       75 51 34.6         1.325       0.96994       24,3       0.24333       97,0       .98686       10,8       .38446       173,1       75 55 00.8         .326       .97019       24,2       .24236       97,0       .98696       10,8       .38446       173,9       75 58 27.1         .327       .97043       24,1       .24139       97,1       .98707       10,8       .38272       174,6       76 01 53.4         .328       .97067       24,0       .24042       97,1       .98707       10,8       .38272       174,6       76 01 53.4         .329       .97091       23,9       .23945       97,1       .98707       10,8       .38021       175,1       76 08 45.9         1.330       0.97115       23,8       0.23848       97,1       .9.98729       10,7       9.37744       176,0       76 12 12.1         .331       .97136       23,6       .23556       97,2       .98750       10,6       .37389       178,4       76 19 04.7         .333       .97186       23,6       .23459       97,2       .98781       10,4 <td></td> <td></td> <td></td> <td></td> <td></td> <td>.98042</td> <td></td> <td>39135</td> <td></td> <td></td>						.98042		39135		
1.325										
.326         .97019         24,2         .24236         97,0         .98686         10,8         .38446         173,9         75 58 27.1           .327         .97043         24,1         .24139         97,0         .98696         10,8         .38272         174,6         76 01 53.4           .328         .97067         24,0         .24042         97,1         .98707         10,8         .38097         175,3         76 05 19.6           .329         .97091         23,9         .23945         97,1         .98718         10,7         .37921         176,1         76 05 19.6           .331         .97139         23,8         .23750         97,1         .98739         10,6         .37567         177,6         76 12 12.1           .331         .97139         23,8         .23750         97,1         .98739         10,6         .37389         178,4         76 19 04.7           .333         .97186         23,6         .23556         97,2         .98760         10,5         .37210         179,2         76 22 30.9           .334         .97293         23,3         .23459         97,2         .98781         10,4         9.36851         180,8         76 29 23.5	. 324	.90970	24,4	.24430	97,0	.98004	10,9		172,4	
.327         .97043         24,1         .24139         97,0         .98696         10,8         .38272         174,6         76 01 53.4           .328         .97067         24,0         .24042         97,1         .98707         10,8         .38097         175,3         76 05 19.6           .329         .97091         23,9         .23945         97,1         .98718         10,7         .37921         176,1         76 08 45.9           1.330         0.97115         23,8         0.23848         97,1         .98739         10,6         .37567         177,6         76 15 38.4           .331         .97130         23,8         .23750         97,1         .98739         10,6         .37567         177,6         76 15 38.4           .332         .97162         23,7         .23653         97,2         .98750         10,6         .37389         178,4         76 19 44.7           .333         .97186         23,6         .23556         97,2         .98761         10,5         .37210         179,2         76 22 30.5           .334         .97250         23,3         .23264         97,3         .98792         10,4         .36669         181,6         76 32 49.7										75 55 00.8
.328       .97067       24,0       .24042       97,1       .98707       10,8       .38097       175,3       76 05 10.6         .329       .97091       23,9       .23945       97,1       .98718       10,7       .37921       176,1       76 08 45.9         1.330       0.97115       23,8       0.23848       97,1       .98739       10,6       .37567       177,6       76 15 38.4         .331       .97139       23,8       .23750       97,1       .98739       10,6       .37389       178,4       76 19 04.7         .332       .97162       23,7       .23653       97,2       .98760       10,5       .37389       178,4       76 19 04.7         .333       .97186       23,6       .23556       97,2       .98760       10,5       .37210       179,2       76 22 30.9         .334       .97209       23,5       .23459       97,2       .98781       10,4       9.36851       180,0       76 25 57.2         1.335       0.97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5         .337       .97279       23,2       .23167       97,3       .98802       10,3 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
.329       .97091       23,9       .23945       97,1       .98718       10,7       .37921       176,1       76 08 45.9         1.330       0.97115       23,8       0.23848       97,1       9.98729       10,7       9.37744       176,9       76 12 12.1         .331       .97139       23,8       .23750       97,1       .98739       10,6       .37567       177,6       76 15 38.4         .332       .97162       23,7       .23653       97,2       .98750       10,6       .37389       178,4       76 19 04.7         .333       .97186       23,6       .23556       97,2       .98760       10,5       .37210       179,2       76 22 30.9         .334       .97209       23,5       .23459       97,2       .98791       10,5       .37031       180,0       76 25 57.2         1.335       0.97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5         .337       .97279       23,2       .23167       97,3       .98802       10,3       .36487       182,4       76 36 16.0         .338       .97303       23,1       .23070       97,3       .98823       10,3 <td>.327</td> <td>1 - 1</td> <td>**</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	.327	1 - 1	**							
1.330       0.97115       23,8       0.23848       97,1       9.98729       10,7       9.37744       176,9       76 12 12.1         .331       .97139       23,8       .23750       97,1       .98739       10,6       .37567       177,6       76 15 38.4         .332       .97162       23,7       .23653       97,2       .98760       10,5       .37389       178,4       76 19 04.7         .333       .97209       23,5       .23459       97,2       .98760       10,5       .37310       179,2       76 22 30.9         .336       .97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5         .337       .97279       23,2       .23167       97,3       .98902       10,4       .36669       181,6       76 32 49.7         .338       .97303       23,1       .23070       97,3       .98802       10,3       .36487       182,4       76 30 42.3         .339       .97326       23,0       .22973       97,3       .98823       10,3       .36121       184,0       76 43 08.5         1.340       0.97348       22,9       0.22875       97,3       .98833       10,2 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
.331       .97139       23,8       .23750       97,1       .98739       10,6       .37567       177,6       76 15 38.4         .332       .97162       23,7       .23653       97,2       .98760       10,6       .37389       178,4       76 19 04.7         .333       .97186       23,6       .23556       97,2       .98760       10,5       .37210       179,2       76 22 30.9         .334       .97209       23,5       .23459       97,2       .98771       10,5       .37031       180,0       76 25 57.2         1.335       0.97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5         .336       .97256       23,3       .23167       97,3       .98702       10,4       .36669       181,6       76 32 49.7         .337       .97279       23,2       .23167       97,3       .98802       10,3       .36487       182,4       76 36 16.6         .338       .97303       23,1       .23070       97,3       .98823       10,3       .36521       184,0       76 43 08.5         1.340       0.97348       22,9       0.22875       97,4       .98843       10,2	.329	.97091	23,9	23945	97,1	-	10,7	.3/921	170,1	70 08 45.9
.332       .97162       23,7       .23653       97,2       .98750       10,6       .37389       178,4       76 19 04.7         .333       .97186       23,6       .23556       97,2       .98760       10,5       .37210       179,2       76 22 30.9         .334       .97209       23,5       .23459       97,2       .98771       10,5       .37031       180,0       76 25 57.2         1.335       0.97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5         .336       .97256       23,3       .23167       97,3       .98792       10,4       .36669       181,6       76 32 49.7         .337       .97279       23,2       .23167       97,3       .98802       10,3       .36487       182,4       76 36 16.6         .338       .97303       23,1       .23070       97,3       .98823       10,3       .36121       184,0       76 43 08.5         1.340       0.97348       22,9       0.22875       97,3       .98833       10,2       .355937       184,8       76 46 34.8         .341       .97371       22,6       .22583       97,4       .98853       10,1 <td></td> <td></td> <td>23,8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>176,9</td> <td>76 12 12.1</td>			23,8						176,9	76 12 12.1
.333						96/39				
.334       .97209       23,5       .23459       97,2       .98771       10,5       .37031       180,0       76 25 57.2         1.335       0.97233       23,4       0.23362       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5       23.6       97,2       9.98781       10,4       9.36851       180,8       76 29 23.5       23.6       97,3       .98702       10,4       .36669       181,6       76 32 49.7       32.9       9.3702       10,4       .36669       181,6       76 32 49.7       32.9       183,2       76 36 16.0       36.0       36487       182,4       76 36 16.0       36.338       9.97303       23,1       .23070       97,3       .98812       10,3       .36305       183,2       76 39 42.3       39.42.3       36.10.0       36.121       184,0       76 43 08.5       36.5       36.121       184,0       76 43 08.5       36.5       36.21       184,0       76 43 08.5       36.2       39.98823       10,3       .36121       184,0       76 43 08.5       36.5       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2       36.2 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>										
1.335     0.97233     23,4     0.23362     97,2     9.98781     10,4     9.36851     180,8     76 29 23.5       .336     .97256     23,3     .23264     97,3     .98792     10,4     .36669     181,6     76 32 49.7       .337     .97279     23,2     .23167     97,3     .98802     10,3     .36487     182,4     76 36 16.7       .338     .97303     23,1     .23070     97,3     .98812     10,3     .36305     183,2     76 39 42.3       .339     .97326     23,0     .22973     97,3     .98823     10,3     .36121     184,0     76 43 08.5       1.340     0.97348     22,9     0.22875     97,3     .98833     10,2     9.35937     184,8     76 46 34.8       .341     .97371     22,8     .22778     97,4     .98843     10,2     .35751     185,7     76 50 01.1       .342     .97394     22,7     .22681     97,4     .98853     10,1     .35565     186,5     76 53 27.3       .343     .97417     22,6     .22583     97,4     .98873     10,0     .35191     188,2     77 00 19.9       1.345     0.97462     22,4     0.22388     97,5     .98883     10,0										
.336       .97256       23,3       .23264       97,3       .98792       10,4       .36669       181,6       76 32 49.7         .337       .97279       23,2       .23167       97,3       .98802       10,3       .36487       182,4       76 36 16.0         .338       .97303       23,1       .23070       97,3       .98812       10,3       .36305       183,2       76 39 42.3         .339       .97326       23,0       .22973       97,3       .98823       10,3       .36121       184,0       76 43 08.5         1.340       0.97348       22,9       0.22875       97,3       .98833       10,2       9.35937       184,8       76 46 34.8         .341       .97371       22,8       .22778       97,4       .98843       10,2       .35751       185,7       76 50 01.1         .342       .97394       22,7       .22681       97,4       .98853       10,1       .35565       186,5       76 53 27.3         .344       .97439       22,5       .22486       97,4       .98863       10,1       .35378       187,3       76 56 53.6         .345       .97462       22,4       0.22388       97,5       .98893       10,0	334	.97209	23,5	.23459	97,2					70 25 57.2
.337       .97279       23,2       .22167       97,3       .98802       10,3       .36487       182,4       76 36 16.0         .338       .97303       23,1       .23070       97,3       .98812       10,3       .36305       183,2       76 39 42.3         .339       .97326       23,0       .22973       97,3       .98823       10,3       .36121       184,0       76 43 08.5         1.340       0.97348       22,9       0.22875       97,3       .98833       10,2       9.35937       184,8       76 46 34.8         .341       .97371       22,8       .22778       97,4       .98843       10,2       .35751       185,7       76 50 01.1         .342       .97304       22,7       .22681       97,4       .98853       10,1       .35565       186,5       76 53 27.3         .343       .97417       22,6       .22583       97,4       .98873       10,0       .35191       188,2       77 00 19.9         1.345       0.97462       22,4       0.22388       97,5       .98933       10,0       .355002       189,1       77 07 12.4         .347       .97506       22,2       .22193       97,5       .98933       9,9									180,8 181.6	76 29 23.5
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.341     .97371     22,8     .22778     97,4     .98843     10,2     .33751     185,7     76 50 01.1       .342     .97394     22,7     .22681     97,4     .98853     10,1     .35565     186,5     76 53 27.3       .343     .97417     22,6     .22583     97,4     .98863     10,1     .35378     187,3     76 56 53.6       .344     .97439     22,5     .22486     97,4     .98873     10,0     .35191     188,2     77 00 19.9       1.345     0.97462     22,4     0.22388     97,5     .98883     10,0     9.35002     189,1     77 03 46.1       .347     .97506     22,2     .22193     97,5     .9893     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.6       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4										76 43 08.5
.341     .97371     22,8     .22778     97,4     .98843     10,2     .33751     185,7     76 50 01.1       .342     .97394     22,7     .22681     97,4     .98853     10,1     .35565     186,5     76 53 27.3       .343     .97417     22,6     .22583     97,4     .98863     10,1     .35378     187,3     76 56 53.6       .344     .97439     22,5     .22486     97,4     .98873     10,0     .35191     188,2     77 00 19.9       1.345     0.97462     22,4     0.22388     97,5     .98883     10,0     9.35002     189,1     77 03 46.1       .347     .97506     22,2     .22193     97,5     .9893     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.6       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4	1.340	0.97348	22,0	0.22875	97,3		10,2	9.35937		76 46 34.8
.342     .97394     .22,7     .22681     97,4     .98853     IO,1     .35565     186,5     76 53 27.3       .343     .97417     .22,6     .22583     97,4     .98863     IO,1     .35378     187,3     76 56 53.6       .344     .97439     .22,5     .22486     97,4     .98873     IO,0     .35191     188,2     77 00 19.9       I.345     .97462     .22,4     0.22388     97,5     .98883     IO,0     9.35002     189,1     77 03 46.1       .346     .97484     .22,3     .22291     97,5     .98933     9,9     .34813     189,9     77 07 12.4       .347     .97506     .22,2     .22193     97,5     .98903     9,9     .34622     190,8     77 10 38.6       .348     .97528     .22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.0       .349     .97550     .22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       I.350     0.97572     .21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4						.98843				76 50 01.1
.343     .97417     22,6     .22583     97,4     .98863     10,1     .35378     187,3     76 56 53.6       .344     .97439     22,5     .22486     97,4     .98873     10,0     .35191     188,2     77 00 19.9       1.345     0.97462     22,4     0.22388     97,5     9.98883     10,0     9.35002     189,1     77 03 46.1       .346     .97484     22,3     .22291     97,5     .98903     9,9     .34813     189,9     77 07 12.4       .347     .97506     22,2     .22193     97,5     .98903     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4									186,5	76 53 27.3
1.344     .97439     22,5     .22486     97,4     .98873     10,0     .35191     188,2     77 00 19.9       1.345     0.97462     22,4     0.22388     97,5     9.98883     10,0     9.35002     189,1     77 03 46.1       .346     .97484     22,3     .22291     97,5     .98933     9,9     .34813     189,9     77 07 12.4       .347     .97506     22,2     .22193     97,5     .98903     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4				.22583		.98863				76 56 53.6
.346     .97484     22,3     .22291     97,5     .98993     9,9     .34813     189,9     77 07 12.4       .347     .97506     22,2     .22193     97,5     .98903     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4				.22486		.98873	10,0		188,2	77 00 19.9
.346     .97484     22,3     .22291     97,5     .98993     9,9     .34813     189,9     77 07 12.4       .347     .97506     22,2     .22193     97,5     .98903     9,9     .34622     190,8     77 10 38.6       .348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4	1.345			0.22388						77 03 46.1
.348     .97528     22,1     .22996     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4	.346			22291						
.348     .97528     22,1     .22096     97,5     .98913     9,8     .34431     191,7     77 14 04.9       .349     .97550     22,0     .21998     97,6     .98923     9,8     .34239     192,6     77 17 31.2       1.350     0.97572     21,9     0.21901     97,6     9.98933     9,7     9.34046     193,5     77 20 57.4										77 IO 38.6
1.350 0.97572 21,9 0.21901 97,6 9.98933 9,7 9.34046 193,5 77 20 57.4	.348				97,5					
	•349	•97550	22,0	.21998	97,6	.98923	9,8	.34239	192,6	77 17 31.2
sinh in	1.350	0.97572	21,9	0.21901	97,6	9.98933	9,7	9.34046	193,5	77 20 57.4
$u = i \sinh iu \omega F_0' = \cosh iu \omega F_0' = \log \frac{\sin iu}{\omega} \omega F_0' = \log \cosh iu \omega F_0' = u$					ω F <sub>0</sub> ′	log <mark>sinh iu</mark>				<del></del>

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u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
+ 450	à orrea	27.0	0.01001	~~ Å	9.98933	<b>~~</b>	0 24046	T00 F	77 00 77 40
1.350	0.97572	21,9	0.21901	97,6	.98942	9,7	9.34046	193,5	77 20 57.49
.351	.97594 .97616	21,8		97,6	98942	9,7	.33852	194,4	77 24 23.75
.352	.97638	21,7 21,6	.21705 .21608	97,6	.98962	9.7	•33657	195,3 196,2	77 27 50.02 77 31 16.28
353	97659		.21510	97,6	.98971	9,6 9,6	.33461		
•354	en Julius St. Clark Press () La transmission (no Section)	21,5		97,7			.33264	197,2	
1.355	0.97681	21,4	0.21413	97,7	9.98981	9,5	9.33067	198,1	77 38 08.81
.356	.97723	21,3 21,2	.21315	97,7 97,7	.99000	9,5 9,4	.32660	200,0	77 45 OI .34
·357 ·358	.97744	21,1	.21119	97,7	.99000	9,4	.32468	201,0	77 48 27.61
359	.97765	21,0	.21022	97,8	.99019	9,3	.32267	202,0	77 51 53.87
1.360	0.97786	20,9	0.20024	97,8	9.99028	9,3	9.32064	203,0	77 55 20.14
.361	.97807	20,8	20826	97,8	.99037	9,2	.31861	204,0	77 58 46.40
.362	.97828	20,7	.20728	97,8	99046	9,2	.31656	205,0	77 58 46.40 78 02 12.67
.363	.97849	20,6	.20630	97,8	99056	9,2	.31451	206,0	78 05 38.93
.364	.97869	20,5	.20533	97,9	.99065	9,1	.31244	207,0	78 09 05.20
1.365	0.97890	20,4	0.20435	97,9	9.99074	9,1	9.31037	208,0	78 12 31.46
.366	.97910	20,3	.20337	97,9	.99083	9,0	.30828	209,1	78 15 57.73
. 367	.97931	20,2	.20239	97,9	.99092	9,0	.30619	210,1	78 19 23.99
. 368	.97951	20,1	.20141	98,0	99101	8,9	.30408	211,2	78 22 50.25
.369	.97971	20,0	.20043	98,0	.99110	8,9	.30196	212,3	78 26 16.52
1.370	0.97991	19,9	0.19945	98,0	9.99119	8,8	9.29983	213,4	78 29 42.78
.371	.98011	19,8	.19847	98,0	.99127	8,8	.29769	214,5	78 33 09.05
372	.98031	19,7	.19749	98.0	.99136	8,7	•29554	215,6	78 36 35.31
•373	.98050	19,7	19651	98,1	.99145	8,7	.29338	216,7	78 40 01.58
•374	.98070	19,6	19553	98,1	99154	8,7	.29121	217,8	78 43 27 84
1.375	0.98089	19,5	0.19455	98,1	9.99162	8,6	9.28903	219,0	78 46 54 11
376	.98109	19,4	.19357	98,1	99171	8,6 8,5	.28683	220,1	78 50 20 37
377	.98128	19,3	.19259	98,1 98,1	.99179	8,5	.28240	221,3	78 53 46.64 78 57 12.90
378	.98147	19,2 19,1	.19100	98,2	.99196	8,4	.28017	223,7	79 00 39.17
	0.98185		0.18964	98,2	9.99205	8,4	9.27793	224,9	79 04 05.43
1.380	.98204	19,0	.18866	98,2	.99213	8,3	.27568	226,I	79 07 31.70
.382	.98223	18,8	18768	98,2	.99213	8,3	.27341	227,3	79 10 57.96
383	.98242	18,7	18669	98,2	.99230	8,3	.27113	228,5	79 14 24.23
384	.98260	18,6	.18571	98,3	.99238	8,2	.26884	229,8	79 17 50.49
1.385	0.98279	18,5	0.18473	98,3	9.99246	8,2	9.26654	231,1	79 21 16.76
.386	.98297	18,4	.18375	98,3	.99254	8,1	.26422	232,3	79 24 43.02
.387	.98316	18,3	.18276	98,3	.99262	8,1	.26189	233,6	79 28 09.29
.388	.98334	18,2	.18178	98,3	.99270	8,0	.25955	234,9	79 31 35.55
.389	.98352	18,1	. 18080	98,4	.99278	8,0	.25719	236,3	79 35 01.82
1.390	0.98370	- 18,0	0.17981	98,4	9.99286	7,9	9.25482	237,6	79 38 28.08
.391	98388	17,9	17883	98,4	99294	7.0	.25244	238,9	79 41 54.35
.392	.98406	17,8	.17785	98,4	.99302		.25004	240,3	79 45 20.61
393	98424	17,7	17686	98,4	.99310	7.8	.24763	241,7	79 48 46.88
•394	.98441	17,6	.17588	98,4	.99318	7,8	.24521		79 52 13.14
1.395	0.98459	17,5	0.17489	98,5	9.99325	7,7	9.24277	244,5	79 55 39.40
.396	.98476	17,4	.17391	98,5	99333	7,7	.24032	245,9	79 59 05.67
•397	.98494	17,3	.17292	98,5	.99341	7,6	.23785	247,4	80 02 31.93
.398	.98511	17,2	.17194	98,5	.99348	7,6	-23537	248.8	80 05 58.20
•399	.98528	17,1	.17095	98,5	.99356	7.5	.23288	250.3	80 09 24.46
1.400	0.98545	17,0	0.16997	98,5	9.99363	7,5	9.23036	251,8	80 12 50.73
u	-i sinh iu	ω F <sub>0</sub> ′	cosh iu	ω F <sub>0</sub> '	log <sup>sinh</sup> iu	ω F <sub>0</sub> ′	log cosh iu	ω F <sub>0</sub>	u

I.400 .401 .402 .403 .404 I.405 .406 .407 .408 .409 I.410	0.98545 .98562 .98579 .98596 .98612 0.98629	17,0 16,9 16,8 16,7 16,6	0.16397 .16898 .16800 .16701 .16602	98,5 98,6 98,6	9.99363				
.401 .402 .403 .404 I.405 .406 .407 .408 .409 I.410 .411	.98562 .98579 .98596 .98612 0.98629	16,9 16,8 16,7 16,6	. 16898 . 16800 . 16701	98,6 98,6		7,5	9.23036	251,8	80° 12′ 50°.73
.402 .403 .404 I.405 .406 .407 .408 .409 I.410	.98579 .98596 .98612 0.98629	16,8 16,7 16,6	. 16800 . 16701	98,6	.99371	7,4	.22784	253,3	80 16 16.99
.403 .404 I.405 .406 .407 .408 .409 I.410	.98596 .98612 0.98629	16,6		-0.4	.99378	7,4	.22530	254,8	80 19 43.20
1,405 ,406 ,407 ,408 ,409 1,410	0.98629		. 16602	98,6	.99386	7,4	.22274	256,4	80 23 09.52
.406 .407 .408 . 409 I.410 .411	.98645			98,6	•99393	7,3	.22017	258,0	80 26 35.79
.407 .408 . 409 I.410 .411	.98645	16,5	0.16504	98,6	9.99400	7,3	9.21758	259,5	80 30 02.0
.408 . 409 I.410 .411		16,4	.16405	98,6	.99408	7,2	.21498	261,1	80 33 28.3
. 409 I.410 .411	.98562 .98678	16,3 16,2	. 16306 . 16208	98,7 98,7	.99415	7,2	.21236	262,8 264,4	80 36 54.58 80 40 20.8
.411	.98694	16,1	.16109	98,7	.99422	7,1 7,1	.20972	266,I	80 43 47.1
.411	0.98710	16,0	0.16010	98,7	9.99436	7,0	9.20440	267,8	80 47 13.3
	.98726	15,9	.15912	98,7	•99443	7,0	20172	269,5	80 50 39.6
.412	.98742	15,8	.15813	98.7	99450	7,0	.19901	271,2	80 54 05.9
.413	.98758	15,7	.15714	98,8	•99457	6,9	. 19629	272,9	80 57 32.17
.414	.98773	15,6	.15615	98,8	.99464	6,9	19355	274,7	81 00 58.4
1.415	0.98789	15,5	0.15517	98,8	9.99471	6,8	9.19080	276,5	81 04 24.70
.416	.98804	15,4	.15418	98,8 98,8	99478	6,8	.18802	278,3 280,2	81 07 50.9
.417 .418	.98820 .98835	15,3 15,2	.15319	98,8	.99484	6,7 6,7	.18523	282,0	81 11 17.2; 81 14 43.50
.419	.98850	15,1	.15121	98,9	.99498	6,6	17959	283,9	81 18 09.70
1.420	0.98865	15,0	0.15023	98,9	9.99504	6.6	9.17674	285,8	81 21 36.0
.421	.98880	14,9	.14924	98,9	.99511	6,6	17388	287,8	81 25 02.29
.422	.98895	14,8	.14825	98,9	.99517	6,5	17099	289,7	81 28 28.5
.423	.98910	14,7	.14726	98,9	.99524	6,5	. 16808	291,7	81 31 54.8
•424	.98924	14,6	.14627	. 98,9	.99530	6,4	.16515	293,7	81 35 21.0
1.425	0.98939	14,5	0.14528	98,9	9.99537	6,4	9.16221	295,8	81 38 47.3
.426	.98954	14,4	.14429	99,0 99,0	99543	6,3 6,3	.15924 .15625	297,8 299,9	81 42 13.6 81 45 39.88
.427 .428	.98982	14,3 14,2	.14330	99,0	.99549 .99556	6,2	.15324	302,I	81 49 06.14
.429	.98996	14,1	.14132	99,0	.99562	6,2	.15021	304,2	81 52 32.4
1.430	0.99010	14,0	0.14033	99,0	9.99568	6,2	9.14716	306,4	81 55 58.65
.431	.99024	13,9	.13934	99,0	•99574	6,1	. 14408	308,6	81 59 24.9
.432	.99038	13,8	. 13835	99,0	.99580	6,1	.14098	310,9	82 02 51.20
•433	.99052	13,7	.13736	99,1	.99586	6,0	.13786	313,2	82 06 17.4
•434	.99066	13,6	.13637	99,1	99592	6,0	.13472	315,5	82 09 43.7.
1.435	.99079	13,5	0.13538	99,1 99,1	9.99598	5,9 5,9	9.13155 .12836	317,8 320,2	82 13 10.00 82 16 36.20
.436 .437	.99106	13,3	. 13439 . 13340	99,1	.99510	5,8	.12515	322,7	82 20 02.5
.438	.00120	13,2	.13241	99,1	.96616	5,8	.12191	325,1	82 23 28.7
.439	.99133	13,1	. 13142	99,1	.99622	5,8	.11865	327,6	82 26 55.0
1.440	0.99146	13,0	0.13042	99,1	9.99627	5,7	9.11536	330,I	82 30 21.3
.441	.99159	12,9	.12943	99,2	.99633	5,7	.11204	332,7	82 33 47 5
.442	.99172	12,8	12844	99,2	99639	5,6	.10870	335,3	82 37 13.8
·443 ·444	.99185	12,7 12,5	.12745 .12646	99,2 99,2	.99644 .99650	5,6 5,5	.10534	338,0 340,7	82 40 40.13 82 44 06.3
1.445	0.99210	12,5	0.12546	99,2	9.99655	5,5	9.09852	343,4	82 47 32.6
.446	.99222	12,4	.12447	99,2	.99661	5,4	.09507	346,2	82 50 58.9
.447	.99235	12,3	12348	99,2	.99666	5,4	.09160	349,0	82 54 25.1
448	.99247	12,2	.12249	99,2	.99672	5,4	.08809	351,9	82 57 51.4
•449	.99259	12,1	.12150	99,3	.99677	5,3	.08456	354,8	83 01 17.7
1.450	0.99271	12,1	0.12050	99,3	9.99682	5,3	9.08100	357,8	83 04 43.9

	u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>ij</sub> ′	log cos u	ω F <sub>0</sub> ′	ц
-		0.000			~ ^ ^	9.99682		9.08100	357,8	83°04′43.97
1	1.450	0.99271	12,1 12,0	0.12050	99,3 99,3	99688	5,3 5,2	.07740	350,8	83 08 10.23
1	.451 .452	.99203	11,9	.11852	99,3	.99693	5,2	07378	363,9	83 11 36.50
1	•453	.99307	11,8	.11752	99,3	.99698	5,1	07013	367,0	83 15 02.76
	•454	.99319	11,7	.11653	99,3	-99703	5,1	.06644	370,1	83 18 29.03
1	1.455	0.99330	11,6	0.11554	99,3	9.99708	<b>5,</b> I	9.06272	373,4	83 21 55.29
-	.456	,99342	11,5	.11454	99,3	.99713	5,0	.05897	376,7	83 25 21.56
	•457	•99353	11,4	.11355	99,4	.99718	5,0	.05519	380,0 383,4	83 28 47.82 83 32 14.09
1	.458 .459	.99365 .99376	11,3 11,2	.11256 .11156	99,4 99,4	.99728	4,9 4,9	.04752	386,8	83 35 40.35
1	1.460	0.99387	11,1	0.11057	99,4	9.99733	4,8	9.04364	390,4	83 39 06.62
	.461	.99398	11,0	.10958	99,4	.99738	4,8	.03971	394,0	83 42 32.88
1	.462	.99409	10,9	.10858	99,4	.99742	4,7	03576	397,6	83 45 59.15
1	.463	.99420	10,8	.10759	99,4	99747	4,7	.03176	401,3	83 49 25.41
	.464	99430	10,7	. 10659	99,4	.99752	4.7	.02773	405,1	83 52 51.68
	1.465	0.99441	10,6	0.10560	99,4	9.99756	4,6	9.02366	409,0	83 56 17.94
	.466	.99451	10,5	. 10460	99,5	99761	4,6	.01955	412,9	83 59 44.21
1	.467	.99462	10,4	.10361	99,5	.99766	4,5	.01540	416,9	84 03 10.47 84 06 36.74
	.468	99472	10,3	.10262	99,5 99,5	.99770	4,5 4,4	.00698	421,0 425,2	84 IO 03.00
-	.469	.99482	10,2							
1	1.470	0.99492	10,1	0.10063	99,5	9.99779	4,4	9.00271	429,4	84 13 29.27
1	.471	.99502	10,0	.09963	99,5	99783	4,3	8.99839	433,7 438,2	84 16 55.53 84 20 21.79
1	.472	.99512	9,9	.09864	99,5	.99788	4,3	.99403		84 23 48.06
-	•473 •474	.99522	9,8 9,7	.09764	99,5 99,5	.99792 .99796	4,3 4,2	.98963 .98518	442,7 447,3	84 27 14.32
	1.475	0.99542	9,6	0.09565	99,5	9.99800	4,2	8.08068	452,0	84 30 40.59
- [	.476	.9955I	9,5	.09465	99,5	.99805	4,I	.97614	456,8	84 34 06.85
1	•477	.99560	9,4	.09366	99,6	.99809	4,1	.97155	461,7	84 37 33.12
-	.478	.99570	9,3	.09266	99,6	.99813	4,0	.96691	466,7	84 40 59.38
1	479	99579	9,2	<b>.0</b> 9167	99,6	.99817	4,0	.96222	471,8	84 44 25.65
1	1.480	0.99588	9,1	0.09067	99,6	9.99821	4,0	8.95747	477,0	84 47 51.91
	.481	99597	9,0	.08968	99,6	.99825	3,9	.95267	482,3	84 51 18.18
	482	.99606	8,9	.08868	99,6	.99829	3,9	94782	487,8	84 54 44 44 84 58 10.71
	.483 .484	.99615	8,8 8,7	.08768 .08669	99,6 99,6	.99832	3,8 3,8	.94292	493,4 499,1	85 OI 36.97
4	1.485	0.99632	8,6	0.08569	99,6	9.99840	3,7	8.93294	504,9	85 05 03.24
-	.486	.99641	8,5	0.08369	99,6	.99844	3,7	.92786	510,9	85 08 29.50
	.487	99649	8,4	.08370	99,6	.99847	3,6	.92272	517,1	85 11 55.77
	.488	.99657	8,3	.08270	99,7	99851	3,6	.91751	523,3	85 15 22.03
	.489	99666	8,2	.08171	99.7	.99855	3,6	.91225	529,8	85 18 48.30
	1.490	0.99674	8,1	0.08071	99,7	9.99858	3,5	8.90692	536,3	85 22 14.56
,	.491	.99682	8,0	.07971	99,7	.99862	3,5	.90152	543,1	85 25 40.83
•	.492	.99690	7.9	-07871	99,7	.99865	3,4	89606	550,0	85 29 07.09
1	493	99698	7,8	.07772	99,7	.99868	3,4	.89052 .88491	557,1 564,4	85 32 33 36 85 35 59 62
	•494	.99705	7,7		99,7	-	3,3		24.0	
1	1.495	0.99713	7,6	0.07572	99,7	9.99875	3,3	8.87923	571,9	85 39 25.89
	.496	.99720	7,5	.07473	99.7	.99878	3,3	.87348	579,6	85 42 52.15 85 46 18.41
	•497	99728	7,4	07373	99,7	.99882	3,2	.86764 .86173	587,4 595,5	85 40 18.41 85 49 44.68
	.498 .499	.99735	7,3	.07273	99,7	.99888	3,2 3,1	.85573	603,9	85 53 10.94
	1.500	0.99749	7,1	0.07074	99,7	9.99891	3,1	8.84965	612,4	85 56 37.21
	u	–i sinh lu	ω Fo'	cosh iu	ω F <sub>0</sub> ′	log <mark>sinh iu</mark>	ω F <sub>0</sub> '	log cosh iu	ω F <sub>0</sub> ′	u v
L							i Richard and Visited A		el deservation de la constitución de	

· u	sin u	ω F₀′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	ω F <sub>0</sub> ′	u
1.500	0.99749	7,1	0.07074	99,7	9.99891	3,1	8.84965	612,4	85°56′37.2
.501	•99757	7,0	.06974	99,8	•99894	3,1	.84348	621,2	86 00 03.4
.502 .503	.99763	6,9 6,8	.06874	99,8	.99897	3,0 2,9	.83722	630,3 639,6	86 03 29.7 86 06 56.0
.504	.99777	6,7	.06675	99,8	.99903	2,9	.82443	649,2	86 10 22.2
1.505	0.99784	6,6	0.06575	99,8	9.99906	2,9	8.81789	659,1	86 13 48.5
.506	.99790	6,5 6,4	.06475 .06375	99,8	.99909	2,8 2,8	.81125	669,3 679,8	86 17 14.8 86 20 41.0
.507 .508	.99797	6,3	.06276	99,8	.99914	2,7	.79765	690,7	86 24 07.3
.509	.99809	6,2	.06176	99,8	.99917	2,7	.79069	701,9	86 27 33.5
1.510	0.99815	6,1	0.06076	99,8	9.99920	2,6	8.78361	713,5	86 30 59.8
.511	.99821	6,0 5,9	05976	99,8 99,8	.99922	2,6 2,6	.77642	725,4 737,8	86 34 26.1 86 37 52 3
.513	.99833	5,8	.05776	99,8	.99927	2,5	76166	750,6	86 41 18.6
.514	.99839	5,7	.05677	99,8	.99930	2,5	.75409	763,8	86 44 44.9
1.515	0.99844	5,6	0.05577	99,8	9.99932	2,4	8.74638	777,5	86 48 11.1
.516	.99850	5,5 5,4	.05477	99,8	•99935 •99937	2,4 2,3	73853	791,8 806,5	86 51 37.4 86 55 03.7
.518	.99861	5,3	.05277	99,9	99939	2,3	.72240	821,8	86 58 29.9
.519	.99866	5,2	.05177	99,9	.99942	2,3	.71410	837,7	87 01 56.2
1.520	0.99871	5,1	0.05077	99,9	9.99944 .99946	2,2 2,2	8.70565	854,2 871,4	87 05 22.5 87 08 48.7
.521	.99881	5,0 4,9	.04978	99,9	.99948	2,2 2,I	.68821	889,3	87 12 15.0
.523	.99886	4,8	.04778	99,9	99950	2,1	.67923	907,9	87 15 41.3
.524	.99891	4,7	.04678	99,9	.99952	2,0	.67005	927,4	87 19 07.5
1.525	0.99895	4,6	0.04578	99,9	9.99954	2,0	8.66068 .65110	947,7 968,8	87 22 33.8 87 26 00.0
. 526 . 527	.99900	4,5 4,4	.04478	99,9	.99956	1,9 1,9	.64130	991,0	87 29 26.3
.528	.99908	4,3	.04278	99,9	.99960	1,9	.63127	1014,2	87 32 52.6
.529	.99913	4,2	.04178	99,9	.99962	1,8	.62101	1038,5	87 36 18.8
1.530	0.99917	4,I	0.04079	99,9	9.99964 .99966	1,8	8.61050	1064,0 1090,7	87 39 45.1. 87 43 11.4
.531 .532	.99921	4,0 3,9	.03979	99,9	.99967	I,7 I,7	.59973 .58868	1118,9	87 46 37.6
•533	.99929	3,8	.03779	99,9	.99969	1,6	.57735	1148,5	87 50 03.9
•534	.99932	3,7	.03679	99,9	99971	1,6	.56571	1179,7	87 53 30.2
1.535	0.99936	3,6	0.03579	99,9	9.99972	1,6	8.55375	1212,7 1247,6	87 56 56.4 88 00 22.7
.536 .537	•99939 •99943	3,5 3,4	.03479	99,9	•99974 •99975	1,5 1,5	.54145	1284,5	88 03 49.0
.538	.99946	3,3	.03279	99,9	99977	I,4	.51575	1323,7	88 07 15.2
•539	99949	3,2	.03179	99,9	.99978	1,4	.50230	1365,4	88 10 41.5
1.540	0.99953	3,I	0.03079	100,0	9.99979	1,3	8.48843	1409,8	88 14 07.8 88 17 34.0
·541 ·542	.99956	3,0 2,9	.02979	100,0	.99981	I,3 I,3	.47410	1457,1 1507,7	88 21 00.3
• 543	.99961	2,8	.02779	100,0	99983	1,2	•44393	1562,0	88 24 26.6
• 544	.99964	2,7	.02679	100,0	.99984	1,2	.42802	1620,3	88 27 52.8
1.545 .546	0.99967	2,6 2,5	0.02579	100,0	9.09986	I,I I,I	8.41151 •39434	1683,2 1751,1	88 31 19.1. 88 34 45.3
.540	.99972	2,4	02379	100,0	.99988	1,0	.37647	1824,7	88 38 11.6
. 548	•99974	2,3	.02279	100,0	.99989	1,0	.35783	1904,8	88 41 37.9
•549	.99976	2,2	<b>.0</b> 21 <b>7</b> 9	100,0	.99990	0,9	•33835	1992,2	88 45 04.18
1.550	0.99978	2,1	0.02079	100,0	9.99991	0,9	8.31796	2088,0	88 48 30.43

	u	sin u	ω F <sub>0</sub> ′	cos u	ω F <sub>0</sub> ′	log sin u	ω F <sub>0</sub> ′	log cos u	∞ F <sub>0</sub> ′	u
	1.550	0.99978	<b>2,</b> I	+0.02079	100,0	9.99991	0,9	8.31796	2088,0	88°48′ 30°.45
	·55 <sup>1</sup>	.99980	2,0	.01980		.99991	0,9	.29656	2193,5	88 51 56.71
	•552	.99982	1,9	.01880	- 17	.99992	0,8	.27405	2310,3	88 55 22.98
	-553	.99984	1,8	.01780 .01680		99993	0,8	.25031	2440, I	88 58 49.24
	•554	.99986	1,7			•99994	0,7	.22519	2585,4	89 02 15.51
	1.555 .556	0.99988	1,6 1,5	+0.01580 .01480	100,0	9.99995	0,7 0,6	8.19854 .17014	2749,1 2934,9	89 05 41.77 89 09 08.04
I	.557	.99990	1,4	.01380	and the second s	.99995 .99996	0,6	13975	3147,7	89 12 34.30
1	.558	.99992	1,3	.01280	grand grand	.99996	0,6	.10707	3393,7	89 16 00.57
	.559	99993	1,2	.01180		99997	0,5	.07174	3681,4	
	1.560	0.99994	: 1,I	+0.01080	100,0	9.99997	0,5	8.03327	4022,5	89 22 53.10
н	.561	99995	1,0	.00980		.99998	0,4	7.99106	4433,1	
1	562	.99996	0,9	.00880	1 1 2 2	.99998	0,4	.94430	4937,1	
Ш	. 563	99997	0,8	.00780		.99999	0,3	.89189	5570,4	80 33 11.80
	.564	.99998	0,7	.00680		•99999	0,3	.83227	6390,0	89 36 38.16
	1.565	0.99998	0,6	+0.00580	100,0	9.99999	0,3	7.76315	7492,5	89 40 04.42
	.566	-99999	0,5	.00480		0.00000	0,2	.68091	9054,7	89 43 30.69
П	.567	-99999	0,4	.00380		.00000	0,2	.57936	11439,8	89 46 56.95
Ш.	.568	1.00000	0,3	.00280		.00000	0,1	.44659	15530,9	
	.569	1.00000	0,2	.00180		.00000	0,1	.25438	24176,8	89 53 49.48
ı	1.570	1.00000	0,1	+0.00080	100,0	0.00000	0,0	6.90109	54537,4	89 57 15.75
Ш	.571	.00000	0,0	00020		.00000	0,0	6.30894n		90 00 42.01
H	.572	.00000	0,1	.00120		.00000	0, I	7.08051	36080,7	90 04 08.28
П	•573	.00000	0,2			.00000	0,1	34315	19707,7	90 07 34.54
I	•574	0.99999	0,3	.00320		.00000	0,1	.50565	13556,1	90 11 00.81
	1.575	0.99999	0,4	-0.00420 .00520	100,0	0.00000	0,2	7.62363n	10331,2	90 14 27.07
ш	.576	.99999	0,5	.00520		9.99999	0,2	.71631	8345,8	90 17 53.33
	·577 ·578	.99998	0,7	.00720	l	99999	0,3	.79265	7000,5 6028,6	90 24 45.86
	579	•99997	0,8	.00820		.99999	0,3	.91400	5293,8	90 28 12.13
	1.580	0.99996	0,9	0.00920	100,0	9.99998	0,4	7.96396n	4718,6	90 31 38.39
	.581	99995	1,0	.01020	,-	.99998	0,4	8.00875	4256,1	90 35 04.66
П	. 582	99994	1,1	.01120	1	99997	0,5	.04935	3876,2	90 38 30.92
П	.583	99993	1,2	.01220	1	99997	0,5	.08648	3558,5	90 41 57.19
	. 584	.99991	1,3	.01320		.99996	0,6	.12068	3289,0	90 45 23.45
	1.585	0.99990	1,4	-0.01420	100,0	9.99996	-0,6	8.15239n	3057,4	90 48 49.72
	. 586	.99988	1,5	.01520	1	99995	0,7	. 18193	2856,3	90 52 15.98
	. 587	99987	1,6	.01620	1	99994	0,7	.20959	2680,0	90 55 42.25
	. 588	.99985	1,7	.01720	l:	99994	0,7	.23560	2524,2	90 59 08.51
	.589	.99983	1,8	.01820	İ	•99993	0,8	.26014	2385,5	91 02 34.78
	1.590	0.99982	1,9	-0.01920	100,0	9.99992	0,8	8.28336n		91 06 01.04
	.591	.99980	2,0	.02020	ŀ	99991	0,9	.30540	2149,3	91 09 27.31
	.592	.99978	2,1	.02120	1	.99990	0,9	.32638	2047,9	91 12 53.57
	- 593	99975	2,2	.02220		.99989	1,0	34639	1955,6	91 16 19.84
	•594	99973	2,3	.02320		.99988	1,0	.36552	1871,3	91 19 46.10
	1.595	0.99971	2,4	-0.02420	100,0	9.99987	1,1	8.38384n	1794,0	
	.596	.99968	2,5	.02520	1.0	.99986	I,I	.40142	1722,8	
	•597	.99966	4	.02020	95%		I,I	.41831	1657,0	
	. 598 - 599	.99963 .99960	2,7	.02/20		.99984	I,2 I,2	·43457 ·45025	1596,1 1539,4	91 33 31.16 91 36 57.43
	1.600	0.00057	2,9	-0.02920	100,0					
	1.000	0.99957	2,9	0.02920	200,0	9.99981	1,3	8.46538n	1486,7	91 40 23.69
		_i olah i	ω F <sub>0</sub> ′	cosh iu	ω Fo'	log <mark>sinh ju</mark>	ω F <sub>0</sub> ′	log ooch !	ω Fo	
	<u>u .</u>	-i sinh iu	ro	COSU IU	- 10	100	w ro	log cosh iu	_ 0	u

### TABLE IV

# THE ASCENDING AND DESCENDING EXPONENTIAL AND Log<sub>10</sub>(e")

NOTE.—In Table IV, for u greater than 2.302, the tabulated values of the ascending exponential may sometimes be erroneous to one unit in the last place.

225

0.000 .001 .002 .003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014	0.000 0000 .000 4343 .000 8686 .001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487 .007 3830	e <sup>u</sup> 1.000 000 .001 001 .002 002 .003 005 .004 008  1.005 013 .006 018 .007 025 .008 032 .009 041  1.010 050 .011 061 .012 072 .013 085 .014 098  1.015 113	e-u  1.000 0000 0.999 0005 .998 0020 .997 0045 .996 0080  0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404  0.990 0498 .989 0603 .988 0717 .987 0841 .986 0975	0.050 .051 .052 .053 .054 0.055 .056 .057 .058 .059 0.060	0.021 7147 .022 1490 .022 5833 .023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920 .026 9263	e <sup>u</sup> 1.051 271 .052 323 .053 376 .054 430 .055 485 1.056 541 .057 598 .058 656 .059 715 .060 775 1.061 837 .062 899	e-u  0.951 2294 .950 2787 .949 3289 .948 3800 .947 4321  0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068  0.941 7645 .940 8232
0.000 .001 .002 .003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014	0.000 0000 .000 4343 .000 8686 .001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	1.000 000 .001 001 .002 002 .003 005 .004 008  1.005 013 .006 018 .007 025 .008 032 .009 041  1.010 050 .011 061 .012 072 .013 085 .014 098  1.015 113	1.000 0000 0.999 0005 .998 0020 .997 0045 .996 0080 0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	0.050 .051 .052 .053 .054 0.055 .056 .057 .058 .059 0.060	0.021 7147 .022 1490 .022 5833 .023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	1.051 271 .052 323 .053 376 .054 430 .055 485 1.056 541 .057 598 .058 656 .059 715 .060 775 1.061 837 .062 899	0.951 2294 .950 2787 .949 3289 .948 3800 .947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.001 .002 .003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014	.000 4343 .000 8686 .001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 6458 .006 0801 0.006 5144 .006 9487	.001 001 .002 002 .003 005 .004 008 I.005 013 .006 018 .007 025 .008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	0.999 0005 .998 0020 .997 0045 .996 0080 0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.051 .052 .053 .054 0.055 .056 .057 .058 .059 0.060	.022 1490 .022 5833 .023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.052 323 .053 376 .054 430 .055 485 I.056 541 .057 598 .058 656 .059 715 .060 775 I.061 837 .062 899	.950 2787 .949 3289 .948 3800 .947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.001 .002 .003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014	.000 4343 .000 8686 .001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 6458 .006 0801 0.006 5144 .006 9487	.001 001 .002 002 .003 005 .004 008 I.005 013 .006 018 .007 025 .008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	0.999 0005 .998 0020 .997 0045 .996 0080 0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.051 .052 .053 .054 0.055 .056 .057 .058 .059 0.060	.022 1490 .022 5833 .023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.052 323 .053 376 .054 430 .055 485 I.056 541 .057 598 .058 656 .059 715 .060 775 I.061 837 .062 899	.950 2787 .949 3289 .948 3800 .947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.002 .003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014	.000 8686 .001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.002 002 .003 005 .004 008 I.005 013 .006 018 .007 025 .008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	.998 0020 .997 0045 .996 0080 0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.052 .053 .054 0.055 .056 .057 .058 .059 0.060	.022 5833 .023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.053 376 .054 430 .055 485 I.056 541 .057 598 .058 656 .059 715 .060 775 I.061 837 .062 899	.949 3289 .948 3800 .947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.003 .004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014 0.015 .016	.001 3029 .001 7372 0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.003 005 .004 008 1.005 013 .006 018 .007 025 .008 032 .009 041 1.010 050 .011 061 .012 072 .013 085 .014 098	.997 0045 .996 0080 0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.053 .054 0.055 .056 .057 .058 .059 0.060	.023 0176 .023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.054 430 .055 485 I.056 541 .057 598 .058 656 .059 715 .060 775 I.061 837 .062 899	.948 3800 .947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.004 0.005 .006 .007 .008 .009 0.010 .011 .012 .013 .014 0.015 .016 .017 .018	0.001 7372  0.002 1715 .002 6058 .003 0401 .003 4744 .003 9087  0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801  0.006 5144 .006 9487	.004 008  1.005 013 .006 018 .007 025 .008 032 .009 041  1.010 050 .011 061 .012 072 .013 085 .014 098  1.015 113	.996 0080  0.995 0125 .994 0180 .993 0244 .992 0319 .991 0404  0.990 0498 .989 0603 .988 0717 .987 0841	.054 0.055 .056 .057 .058 .059 0.060 .061	.023 4519 0.023 8862 .024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.055 485  1.056 541 .057 598 .058 656 .059 715 .060 775  1.061 837 .062 899	.947 4321 0.946 4851 .945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.006 .007 .008 .009 0.010 .011 .012 .013 .014 0.015 .016	.002 6058 .003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.006 018 .007 025 .008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	.994 o180 .993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.056 .057 .058 .059 0.060 .061	.024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.057 598 .058 656 .059 715 .060 775 1.061 837 .062 899	.945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.007 .008 .009 0.010 .011 .012 .013 .014 0.015 .016	.003 0401 .003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.007 025 .008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	.993 0244 .992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.056 .057 .058 .059 0.060 .061	.024 3205 .024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.057 598 .058 656 .059 715 .060 775 1.061 837 .062 899	.945 5391 .944 5941 .943 6499 .942 7068 0.941 7645
.008 .009 0.010 .011 .012 .013 .014 0.015 .016	.003 4744 .003 9087 0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.008 032 .009 041 I.010 050 .011 061 .012 072 .013 085 .014 098	.992 0319 .991 0404 0.990 0498 .989 0603 .988 0717 .987 0841	.057 .058 .059 0.060 .061	.024 7548 .025 1891 .025 6234 0.026 0577 .026 4920	.058 656 .059 715 .060 775 1.061 837 .062 899	.944 5941 .943 6499 .942 7068
.009 0.010 .011 .012 .013 .014 0.015 .016	.003 9087  0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801  0.006 5144 .006 9487	.009 041 1.010 050 .011 061 .012 072 .013 085 .014 098	.991 0404 <b>0.990</b> 0498 .989 0603 .988 0717 .987 0841	.058 .059 0.060 .061 .062	.025 1891 .025 6234 0.026 0577 .026 4920	.059 715 .060 775 1.061 837 .062 899	.943 6499 .942 7068 0.941 7645
0.010 .011 .012 .013 .014 0.015 .016 .017	0.004 3429 .004 7772 .005 2115 .005 6458 .006 0801 0.006 5144	1.010 050 .011 061 .012 072 .013 085 .014 098	0.990 0498 .989 0603 .988 0717 .987 0841	0.060 .061 .062	0.026 0577 .026 4920	.060 775 1.061 837 .062 899	.942 7068 0.941 7645
.011 .012 .013 .014 0.015 .016 .017	.004 7772 .005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.011 061 .012 072 .013 085 .014 098	.989 0603 .988 0717 .987 0841	.061 .062	.026 4920	.062 899	
.012 .013 .014 0.015 .016 .017	.005 2115 .005 6458 .006 0801 0.006 5144 .006 9487	.012 072 .013 085 .014 098	.988 0717 .987 0841	.062			.040 8222
.013 .014 0.015 .016 .017	.005 6458 .006 0801 0.006 5144 .006 9487	.013 085 .014 098	.987 0841		.026 0262		
.014 0.015 .016 .017	.006 0801 0.006 5144 .006 9487	.014 098		ഹവാ		.063 962	.939 8829
0.015 .016 .017	0.006 5144 .006 9487	1.015 113	.980 0975		.027 3606	.065 027	.938 9435
.016 .017 .018	.006 9487			.064	.027 7948	.066 092	.938 0050
.017 .018			0.985 1119	0.065	0.028 2291	1.067 159	0.937 0675
.018	.007 3830	.016 129	.984 1273	<b>.0</b> 66	.028 6634	.068 227	.936 1309
		.017 145	.983 1437	.067	.029 0977	.069 295	.935 1952
	.007 8173	.018 163	.982 1610	.068	.029 5320	.070 365	.934 2605
.019	.008 2516	.019 182	.981 1794	.069	.029 9663	.071 436	933 3267
0.020	0.008 6859	1.020 201	0.980 1987	0.070	0.030 4006	1.072 508	0.932 3938
.021	.009 1202	.021 222	.979 2190	.071	.030 8349	.073 581	.931 4619
.022	.009 5545	.022 244	.978 2402	.072	.031 2692	.074 655	.930 5309
.023	.009 9888	.023 267	977 2625	.073	.031 7035	.075 731	.929 6008
.024	.010 4231	.024 290	.976 2857	.074	.032 1378	.076 807	.928 6717
0.025	0.010 8574	1.025 315	0.975 3099	0.075	0.032 5721	1.077 884	0.927 7435
.026	.011 2917	.026 341	·974 335I	<b>.07</b> 6	.033 0064	.078 963	.926 8162
.027	.011 7260	.027 368	.973 3612	.077	.033 4407	.080 042	.925 8899
.028	.012 1602	.028 396	.972 3884	.078	.033 8750	.081 123	.924 9644
.029	.012 5945	.029 425	.971 4165	.079	.034 3093	.082 204	.924 0399
0.030	0.013 0288	1.030 455	0.970 4455	0.080	0.034 7436	1.083 287	0.923 1163
.031	.013 4631	.031 486	.969 4756	.081	.035 1779	.084 371	.922 1937
.032	.013 8974	.032 518	.968 5066	.082	.035 6121	.085 456	.921 2720
.033	.014 3317	.033 551	967 5386	.083	.036 0464	.086 542	.920 3511
.034	.014 7660	.034 585	.966 5715	.084	.036 4807	.087 629	.919 4313
0.035	0.015 2003	1.035 620	0.965 6054	0.085	0.036 9150	1.088 717	0.918 5123
.036	.015 6346	.036 656	.964 6403	.086	.037 3493	.089 806	.917 5942
.037	.016 0689	.037 693	.963 6761	087	.037 7836	.090 897	.916 6771
.038	.016 5032	.038 731	.962 7129	.088	.038 2179	.091 988	.915 7609
.039	.016 9375	.039 770	.961 7507	<b>.0</b> 89	.038 6522	.093 081	.914 8456
0.040	0.017 3718	1.040 811	0.960 7894	0.090	0.039 0865	1.094 174	0.913 9312
.041	.017 8061	.041 852	.959 8291	.091	.039 5208	.095 269	.913 0177
.042	.018 2404	.042 894	.958 8698	.092	.039 9551	.096 365	.912 1051
.043	.018 6747	.043 938	.957 9114	.093	.040 3894	.097 462	.911 1935
.044	.019 1090	.044 982	.956 9540	.094	.040 8237	.098 560	.910 2828
0.045	0.019 5433	1.046 028	0.955 9975	0.095	0.041 2580	1.099 659	0.909 3729
.046	.019 9775	.047 074	.955 0420	.096	.041 6923	.100 759	.908 4640
.047	.020 4118	.048 122	.954 0874	.097	.042 1266	.101 860	.907 5560
.048 . <b>0</b> 49	.020 8461	.049 171	.953 1338 .952 1811	.098	.042 5609 .042 9952	.102 963 .104 066	.906 6489 .905 7427
		_	·	المستقولة بالأراد			
0.050	0.021 7147	1.051 271	0.951 2294	0.100	0.043 4294	1.105 171	0.904 8374
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>tt</sup> )	e <sup>u</sup>	e <sup>-u</sup>

The Exponential.

u	iog <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e u	u	log <sub>10</sub> (e <sup>u</sup> )	eū	e-u
0.100 .101 .102	0.043 4294 .043 8637 .044 2980	1.105 171 .106 277 .107 383	0.904 8374 .903 9330 .903 0296	0.150 .151 .152	0.065 1442 .065 5785 .066 0128	1.161 834 .162 997 .164 160	0.860 7080 .859 8477 .858 9883
.103	.044 7323 .045 1666	.108 491 .109 600	.902 1270 .901 2253	.153 .154	.066 4471 .066 8814	.165 325 .166 491	.858 1297 .857 2720
0.105 .106 .107 .108	0.045 6009 .046 0352 .046 4695 .046 9038 .047 3381	1.110 711 .111 822 .112 934 .114 048 .115 162	0.900 3245 .899 4246 .898 5257 .897 6276 .896 7304	0.155 .156 .157 .158	0.067 3156 .067 7499 .068 1842 .068 6185 .069 0528	1.167 658 .168 826 .169 996 .171 166 .172 338	0.856 4152 .855 5592 .854 7041 .853 8498 .852 9964
0.110 .111 .112 .113	0.047 7724 .048 2067 .048 6410 .049 0753 .049 5096	1.116 278 .117 395 .118 513 .119 632 .120 752	0.895 8341 .894 9387 .894 0443 .893 1507 .892 2580	0.160 .161 .162 .163	0.069 4871 .069 9214 .070 3557 .070 7900 .071 2243	1.173 511 .174 685 .175 860 .177 037 .178 214	0.852 1438 .851 2921 .850 4412 .849 5912 .848 7420
0.115 .116 .117 .118	0.049 9439 .050 3782 .050 8125 .051 2467 .051 6810	1.121 873 .122 996 .124 119 .125 244 .126 370	0.891 3661 .890 4752 .889 5852 .888 6961 .887 8078	0.165 .166 .167 .168	0.071 6586 .072 0929 .072 5272 .072 9615 .073 3958	1.179 393 .180 573 .181 754 .182 937 .184 120	0.847 8937 .847 0462 .846 1996 .845 3538 .844 5089
0.120 .121 .122 .123 .124	0.052 1153 .052 5496 .052 9839 .053 4182 .053 8525	1.127 497 .128 625 .129 754 .130 884 .132 016	0.886 9204 .886 9340 .885 1484 .884 2637 .883 3798	0.170 .171 .172 .173	0.073 8301 .074 2644 .074 6987 .075 1329 .075 5672	1.185 305 .186 491 .187 678 .188 866 .190 056	0.843 6648 .842 8216 .841 9792 .841 1376 .840 2969
0. 125 .126 .127 .128 .129	0.054 2868 .054 7211 .055 1554 .055 5897 .056 0240	1.133 148 .134 282 .135 417 .136 553 .137 690	0.882 4969 .881 6148 .880 7337 .879 8534 .878 9740	0.175 .176 .177 .178 .179	0.076 0015 .076 4358 .076 8701 .077 3044 .077 7387	1.191 246 .192 438 .193 631 .194 825 .196 021	0.839 4570 .838 6180 .837 7798 .836 9424 .836 1059
0.130 .131 .132 .133	0.056 4583 .056 8926 .057 3269 .057 7612 .058 1955	1.138 828 ,139 968 .141 108 .142 250 .143 393	0.878 0954 .877 2178 .876 3410 .875 4651 .874 5901	0.180 .181 .182 .183	0.078 1730 .078 6073 .079 0416 .079 4759 .079 9102	1.197 217 .198 415 .199 614 .200 814 .202 016	0.835 2702 .834 4354 .833 6013 .832 7682 .831 9358
0.135 .136 .137 .138	0.058 6298 .059 0640 .059 4983 .059 9326 .060 3669	1.144 537 .145 682 .146 828 .147 976 .149 124	0.873 7159 .872 8426 .871 9702 .871 0987 .870 2280	0. 185 . 186 . 187 . 188 . 189	0.080 3445 .080 7788 .081 2131 .081 6474	1.203 218 .204 422 .205 627 .206 834 .208 041	0.831 1043 .830 2736 .829 4437 .828 6147 .827 7865
0.140 .141 .142 .143	0.060 8012 .061 2355 .061 6698 .062 1041 .062 5384	1.150 274 .151 425 .152 577 .153 730 .154 884	o.869 3582 .868 4893 .867 6213 .866 7541 .865 8877	0.190 .191 .192 .193	0.082 5160 .082 9502 .083 3845 .083 8188 .084 2531	1.209 250 .210 459 .211 671 .212 883 .214 096	0.826 9591 .826 1326 .825 3069 .824 4820 .823 6579
0.145 .146 .147 .148	0.062 9727 .063 4070 .063 8413 .064 2756 .064 7099	1.156 040 .157 196 .158 354 .159 513 .160 673	0.865 0223 .864 1577 .863 2940 .862 4311 .861 5691	0.195 .196 .197 .198	0.084 6874 .085 1217 .085 5560 .085 9903 .086 4246	1.215 311 .216 527 .217 744 .218 962 .220 182	0.822 8347 .822 0122 .821 1906 .820 3699 .819 5499
0.150	0.065 1442	1.161 834	0.860 7080	0.200	0.086 8589	1.221 403	0.818 7308
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>n</sup> )	e <sup>tt</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>

u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>
0.200	0.086 8589	1.221 403	0.818 7308	0.250	0.108 5736	1.284 025	0.778 80
.201	.087 2932	.222 625	.817 9124	.251	109 0079	.285 310	778 02
.202	.087 7275	.223 848	.817 0949	.252	109 4422	.286 596	.777 24
.203 .204	.088 1618 .088 5961	.225 072	.816 2782 .815 4624	.253 .254	.109 8765	.287 883	.776 469
0.205	0.089 0304	1.227 525	0.814 6473	0.255	0.110 7451	1.290 462	0.774 916
.206	.089 4647	.228 753	.813 8331	.256	.111 1794	.291 753	·774 I4
.207	.089 8990	.229 983	.813 0196 .812 2070	.257	.111 6137	.293 045	.773 36
.209	.090 7675	.231 213	.811 3952	.258	.112 0480	294 339 295 634	.772 59.
0.210	0.091 2018	1.233 678	v.810 5842	0.260	0.112 9166	1.296 930	0.771 05
.211	.091 6361	.234 912	809 7741	.261	.113 3509	298 228	.770 28
.212	.092 0704	.236 148	.808 9647 .808 1561	.262 .263	.113 7852	.299 527	.769 51
.214	.092 5047 .092 9390	.238 623	.807 3484	.203 .264	.114 2194 .114 6537	.300 827	.768 74 .767 97
0.215	0.093 3733	1.239 862	0.806 5414	0.265	0.115 0880	1.303 431	0.767 20
.216	.093 8076	.241 102	805 7353	.266	.115 5223	•304 735	766 439
.217	.094 2419	.242 344	.804 9300 .804 1254	.267	.115 9566	.306 040	.765 67
.219	.094 0702	.244 831	.803 3217	.268 .269	.116 3909	·307 347 ·308 655	.764 90 .764 14
0.220	0.095 5448	1.246 077	0.802 5188	0.270	0.117 2595	1.309 964	0.763 37
.221	.095 9791	.247 323	.801 7167	.271	.117 6938	.311 275	.762 610
.222	.096 4134 .096 8477	.248 571	.800 9154 .800 1148	.272	.118 1281	.312 587	.761 85
.224	.090 64/7	.251 071	799 3151	.273 .274	.118 5624	.313 900 .315 215	.761 09:
0.225	0.097 7163	1.252 323	0.798 5162	0.275	0.119 4310	1.316 531	0.759 57
.226	.098 1506	.253 576	797 7181	.276	.119 8653	.317 848	.758 81
.227	.098 5848	.254 830 .256 085	.796 9208 .796 1243	277	120 2996	.319 166	.758 05.
.229	.099 4534	.257 342	795 3285	.278 .279	.120 7339	.320 486 .321 807	.757 29 .756 53
0.230	0.099 8877	1.258 600	0.794 5336	0.280	0.121 6025	1.323 130	0.755 78
.231	.100 3220	.259 859	793 7395	.281	.122 0367	.324 454	.755 02
.232	.100 7563 .101 1906	.262 381	.792 9461 .792 1536	.282 .283	.122 4710 .122 9053	325 779	·754 27
.234	.101 6249	.263 644	.791 3618	.284	.123 3396	.328 433	752 76
0.235	0.102 0592	1.264 909	0.790 5708	0.285	0.123 7739	1.329 762	0.752 01
.236	102 4935	.266 174 .267 441	.789 7807 .788 9913	.286 .287	124 2082	.331 092	751 20
.237 .238	.102 9278	.268 709	.788 2027	.288	124 6425	·332 424 ·333 757	.750 51 .749 76
.239	.103 7964	.269 979	.787 4149	.289	.125 5111	.335 092	.749 OI:
0.240	0.104 2307	1.271 249	0.786 6279	0.290	0.125 9454	1.336 427	0.748 26
.24I .242	.104 6650 .105 0993	.272 521	.785 8416 .785 0562	.291 .292	.126 3797 .126 8140	337 705	.747 51.
·242 •243	.105 5336	.275 069	.784 2715	.292	.120 8140	.339 103 .340 443	.746 02
244	.105 9679	.276 344	783 4876	.294	.127 6826	.341 784	745 27
0.245	0.106 4021	1.277 621	0.782 7045	0.295	0.128 1169	1.343 126	0.744 53
.246 .247	.106 8364 .107 2707	.278 900 .280 179	.781 9222 .781 1407	.296 .297	128 5512 128 9855	.344 470 .345 815	.743 787 .743 04
.248	107 7050	.281 460	.780 3599	.298	.120 9055	.345 615	.742 30
.249	.108 1393	.282 742	.779 5800	.299	.129 8541	.348 510	•741 55
0.250	0.108 5736	1.284 025	0.778 8008	0.300	0.130 2883	1.349 859	0.740 81
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	. e <sup>tt</sup>	e_n	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е-ч

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u j	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>1</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>1</sup>	e <sup>-1</sup>
0.300	0.130 2883	1.349 859	0.740 8182	0.350	0.152 0031	1.419 068	0.704 6881
.301	.130 7226	.351 209	.740 0778	.351	.152 4374	.420 487	.703 9838
.302	.131 1569	.352 561	.739 3381	.352	.152 8717	.421 909	.703 2801
.303	.131 5912	.353 914	.738 5991	.353	.153 3060	.423 331	.702 5772
.304	.132 0255	.355 269	.737 8609	.354	.153 7402	.424 755	.701 8750
0.305	0.132 4598	1.356 625	0.737 1234	0.355	0.154 1745	1.426 181	0.701 1734
.306	.132 8941	.357 982	.736 3866	.356	.154 6088	.427 608	.700 4726
.307	.133 3284	.359 341	.735 6506	.357	.155 0431	.429 036	.699 7725
.308	.133 7627	.360 701	.734 9153	.358	.155 4774	.430 466	.699 0731
.309	.134 1970	.362 062	.734 1808	.359	.155 9117	.431 897	.698 3744
0.310	0.134 6313	1.363 425	0.733 4470	0.360	0.156 3460	1.433 329	0.697 6763
.311	.135 0656	.364 789	.732 7139	.361	.156 7803	.434 763	.696 9790
.312	.135 4999	.366 155	.731 9815	.362	.157 2146	.436 199	.696 2824
.313	.135 9342	.367 522	.731 2499	.363	.157 6489	.437 636	.695 5864
.314	.136 3685	.368 890	.730 5190	.364	.158 0832	.439 074	.694 8912
0.315	0.136 8028	1.370 259	0.729 7889	0.365	0.158 5175	1.440 514	0.694 1967
.316	.137 2371	.371 630	.729 0595	.366	.158 9518	.441 955	.693 5028
.317	.137 6714	.373 003	.728 3308	.367	.159 3861	.443 398	.692 8096
.318	.138 1056	.374 376	.727 6028	.368	.159 8204	.444 842	.692 1172
.319	.138 5399	.375 751	.726 8755	.369	.160 2547	.446 288	.691 4254
0.320	0.138 9742	1.377 128	0.726 1490	0.370	0.160 6890	1.447 735	0.690 7343
.321	.139 4085	.378 506	.725 4233	.371	.161 1233	.449 183	.690 0439
.322	.139 8428	.379 885	.724 6982	.372	.161 5575	.450 633	.689 3542
.323	.140 2771	.381 265	.723 9739	.373	.161 9918	.452 084	.688 6652
.324	.140 7114	.382 647	.723 2502	.374	.162 4261	.453 537	.687 9769
0.325 .326 .327 .328 .329	0.141 1457 .141 5800 .142 0143 .142 4486 .142 8829	1.384 031 .385 415 .386 801 .388 189 .389 578	0.722 5274 .721 8052 .721 0837 .720 3630 .719 6430	0.375 .376 .377 .378 .379	0.162 8604 .163 2947 .163 7290 .164 1633	1.454 991 .456 447 .457 904 .459 363 .460 823	0.687 2893 .686 6023 .685 9161 .685 2305 .684 5456
0.330 .331 .332 .333 .334	0.143 3172 .143 7515 .144 1858 .144 6201 .145 0544	1.390 968 .392 360 .393 753 .395 147 .396 543	0.718 9237 .718 2052 .717 4873 .716 7702 .716 0538	0.380 .381 .382 .383	0.165 0319 .165 4662 .165 9005 .166 3348 .166 7691	1.462 285 .463 748 .465 212 .466 678 .468 145	0.683 8614 .683 1779 .682 4951 .681 8129 .681 1314
0.335	0.145 4887	1.397 940	0.715 3381	0.385	0.167 2034	1.469 614	0.680 4506
.336	.145 9229	.399 339	.714 6231	.386	.167 6377	.471 085	.679 7705
.337	.146 3572	.400 739	.713 9088	.387	.168 0720	.472 556	.679 0911
.338	.146 7915	.402 141	.713 1953	.388	.168 5063	.474 030	.678 4123
.339	.147 2258	.403 543	.712 4824	.389	.168 9406	.475 505	.677 7343
0.340	0.147 6601	1.404 948	0.711 7703	0.390	0.169 3748	1.476 981	0.677 0569
.341	.148 0944	.406 353	.711 0589	.391	.169 8091	.478 459	.676 3802
.342	.148 5287	.407 760	.710 3482	.392	.170 2434	.479 938	.675 7041
.343	.148 9630	.409 169	.709 6382	.393	.170 6777	.481 418	.675 0287
.344	.149 3973	.410 579	.708 9289	.394	.171 1120	.482 901	.674 3541
0.345	0.149 8316	1.411 990	0.708 2204	0.395	0.171 5463	1.484 384	0.673 6800
.346	.150 2659	.413 403	.707 5125	.396	.171 9806	.485 869	.673 0067
.347	.150 7002	.414 817	.706 8053	.397	.172 4149	.487 356	.672 3340
.348	.151 1345	.416 232	.706 0989	.398	.172 8492	.488 844	.671 6620
.349	.151 5688	.417 649	.705 3931	.399	.173 2835	.490 334	.670 9907
0.350	0.152 0031	1.419 068	<b>0.7</b> 04 6881	0.400	0.173 7178	1.491 825	0.670 3200
log <sub>e</sub> (e <sup>3</sup> )	log <sub>10</sub> (e <sup>n</sup> )	e <sup>u</sup>	e <sup>—u</sup>	log <sub>e</sub> (e <sup>tt</sup> )	log <sub>10</sub> (e <sup>n</sup> )	e <sup>n</sup>	6—a

The Exponential.

	Night Street	St. St. St. St. St. St. St. St. St. St.		100 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm 200 mm	3		
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—tt</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
0.400	0.173 7178	1.491 825	0.670 3200	0.450	0.195 4325	1.568 312	0.637 6282
.401	.174 1521	•493 317	.669 6501	·45I	. 195 8668	.569 881	.636 9908
.402	. 174 5864	.494 811	.668 9807	.452	.196 3011	.571 452	.636 3542
.403	175 0207	.496 307	.668 3121	•453	.196 7354	573 024	.635 7181
.404	175 4550	.497 804	.667 Ğ44I	•454	197 1697	574 598	.635 0827
0.405	0.175 8893	1.499 303	o.666 9768	0.455	0.197 6040	1.576 173	0.634 4480
.406	. 176 3236	.500 803	.666 3102	.456	.198 0383	.577 750	.633 8138
.407	.176 7579	.502 304	.665 6442	·457	. 198 4726	.579 329	.633 1803
.408	.177 1921	.503 807	.664 9789	.458	. 198 9069	.580 909	.632 5475
.409	.177 6264	.505 312	.664 3142	•459	.199 3412	.582 491	.631 9152
0.410	0.178 0607	1.506 818	0.663 6503	0.460	0.199 7755	1.584 074	0.631 2836
.411	.178 4950	.508 325	.662 9869	.461	.200 2098	.585 659	.630 6527
.412	.178 9293	509 834	.662 3243	.462	.200 6441	.587 245	.630 0223
.413	.179 3636	.511 345	.661 6623	.463	.201 0783	.588 833	.629 3926
.414	179 7979	.512 857	.661 <b>0</b> 010	.464	.201 5126	.590 423	.628 7636
0.415	0.180 2322	1.514 371	0.660 3403	0.465	0.201 9469	1.592 014	0.628 1351
.416	.180 6665	.515 886	.659 6803	.466	.202 3812	.593 607	.627 5073
.417	.181 1008	.517 403	.659 0209 .658 3622	.467	.202 8155	.595 201	.626 8801 .626 2535
.418 .419	.181 5351 .181 9694	.520 440	.657 7042	.468 .469	.203 2498 .203 6841	.596 797 .598 395	.625 6276
0.420	0.182 4037	1.521 962	0.657 0468	0.470	0.204 1184	1.599 994	0.625 0023
.421	.182 8380	.523 484	.656 3901	.471	.204 5527	.601 595	624 3776
.422	.183 2723	.525 009	.655 7340	.472	.204 9870	.603 197	.623 7535
.423	.183 7066	.526 534	655 0786	.473	.205 4213	.604 801	.623 1301
.424	184 1409	.528 062	.654 4239	•474	.205 8556	.606 407	.622 5073
0.425	0.184 5752	1.529 590	0.653 7698	0.475	0.206 2899	1.608 014	0.621 8851
.426	.185 0094	.531 121	.653 1163	.476	.206 7242	.609 623	.621 2635
.427	.185 4437	.532 653	.652 4636	•477	.207 1585	.611 233	.620 6425
.428	.185 8780	.534 187	.651 8114	.478	.207 5928	.612 845	.620 0222
.429	.186 3123	.535 721	.651 1599	•479	.208 0271	.614 459	.619 4025
0.430	0.186 7466	1.537 258	0.650 5091	0.480	0.208 4614	1.616 074	0.618 7834
.43 <sup>I</sup>	.187 1809	.538 796	.649 8589	.481	.208 8956	.617 691	.618 1649
.432	.187 6152	• 540 335	.649 2094	482	.209 3299	.619 310	.617 5471
•433	. 188 0495	.541 876	.648 5605	.483	.209 7642	.620 930	.616 9298
•434	. 188 4838	.543 419	.647 9123	.484	.210 1985	.622 552	.616 3132
0.435	0.188 9181	1.544 963	0.647 2647	0.485	0.210 6328	1.624 175	0.615 6972
.436	.189 3524	.546 509	.646 6177	486	.211 0671	.625 800	.615 0818
•437	189 7867	.548 056	.645 9714	.487	.211 5014	.627 427	.614 4670
.438	.190 2210	.549 605	.645 3258	.488	.211 9357	.629 055	.613 8529
•439	.190 6553	.551 155	.644 6808	.489	.212 3700	.630 685	.613 2393
0.440	0.191 0896	1.552 707	0.644 0364	0.490	0.212 8043	1.632 316	0.612 6264
.441	.191 5239	.554 261	.643 3927	.491	.213 2386	633 949	.612 0141
.442	.191 9582	.555 816	.642 7496	.492	.213 6729	.635 584	.611 4024
•443	.192 3925	•557 372	.642 1072	•493	.214 1072	.037 221	.610 7913
•444	. 192 8267	.558 930	.641 4654	•494	.214 5415	.638 859	.610 1808
0.445	0.193 2610	1.560 490	0.640 8243	0.495	0.214 9758	1.640 498	0.609 5709
.446	. 193 6953	.562 051	.640 1838	.496	.215 4101	.642 140	.608 9616
.447	.194 1296	.563 614	.639 5439	•497	.215 8444	.643 783	.608 3530
.448	. 194 5639	.565 179	.638 9047	.498	.216 2787	.645 427	.607 7449
•449	.194 9982	.566 745	.638 2661	.499	.216 7129	.647 073	.607 1375
0.450	0.195 4325	1.568 312	0.637 6282	0.500	0.217 1472	1.648 721	0.606 5307
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>

			1				
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	. и	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
0.500	0.217 1472	1.648 721	0.606 5307	0.550	0.238 8620	1.733 253	0.576 9498
.501	.217 5815	.650 371	.605 9244	.551	.239 2963	734 987	.576 3731
.502	.218 0158	.652 022	.605 3188	. 552	.239 7306	.736 723	·575 7971
.503	.218 4501	.653 675	.604 7138	• 553	.240 1648	.738 461	.575 2216
.504	.218 8844	.655 329	.604 1094	•554	.240 5991	.740 200	.574 6466
0.505	0.219 3187	1.656 986	0.603 5056	0.555	0.241 0334	1.741 941	0.574 0723
.506	.219 7530 .220 1873	.658 643 .660 303	.602 9024	.556	241 4677	.743 684 .745 428	573 4985
508	.220 6216	.661 964	.601 6978	•557 •558	.241 9020	747 175	.572 9253 .572 3526
.509	.221 0559	,663 627	.601 0964	•559	.242 7706	.748 923	.571 7806
0.510	0.221 4902	1.665 291	0.600 4956	0.560	0.243 2049	1.750 673	0.571 2091
.511	.221 9245	.666 957	599 8954	.561	.243 6392	.752 424	.570 6381
.512	.222 3588	.668 625	.599 2958 .598 6968	.562	.244 0735	·754 177	570 0678
.513	.222 7931 .223 2274	.670 295 .671 966	.598 0984	.563 .564	.244 5078 .244 942I	.755 932 .757 689	.569 4980 .568 9288
0.515	0.223 6617	1.673 639	0.597 5006	0.565	0.245 3764	1.759 448	0.568 3601
.516	.224 0960	.675 313	506 0034	.566	.245 8107	.761 208	.567 7921
.517	.224 5302	.676 989	596 3068	.567	.246 2450	.762 970	.567 2246
.518	.224 9645	.678 667	.595 /100	.568	.246 6793	.764 734	.566 6576
.519	.225 3988	.680 346	.595 1154	.569	.247 1136	.766 500	.566 0912
0.520	0.225 8331	1.682 028	0.594 5205	0.570	0.247 5479	1.768 267	0.565 5254
.521	.226 2674	.683 711	593 9263	.571	.247 9821	.770 036	.564 9602
.522	.226 7017	.685 395 .687 081	·593 3327 ·592 7397	· 572 · 573	.248 4164 .248 8507	.771 807 .773 580	.564 3955 .563 8314
.524	.227 5703	.688 769	.592 1472	.574	.249 2850	.775 354	.563 2679
0.525	0.228 0046	1.690 459	0.591 5554	0.575	0.249 7193	1.777 131	0.562 7049
.526	.228 4389	.692 150	.590 9641	.576	.250 1536	778 909	.562 1424
.527	.228 8732	.693 843 .695 538	.590 3734 .589 7834	•577	.250 5879	.780 688	.561 5806
.520	.229 3075	.697 234	.589 1939	· 578 · 579	.251 4565	.782 470 .784 253	.560 4585
0.530	0.230 1761	1.698 932	0.588 6050	0.580	0.251 8908	1.786 038	0.559 8984
•531	.230 6104	.700 632	.588 0167	.581	.252 3251	.787 825	.550 3387
.532	.231 0447	.702 334	.587 4289	.582	.252 7594	.789 614	.558 7797
•533 •534	.231 4790 .231 9133	.704 037 .705 742	.586 8418 .586 2553	. 583 . 584	.253 1937	.791 405 .793 197	.558 2212 .557 6632
0.535	0.232 3475	1.707 448	0.585 6693	0.585	0.254 0623	1.794 991	0.557 1059
.536	.232 7818	.709 157	585 0839	.586	.254 4966	.706 787	.556 5490
.537	.233 2161	.710 867	.584 4991	.587	.254 9309	.798 585	.555 9928
.538	.233 6504	.712 578	.583 9149	.588	.255 3652	.800 384	.555 4370
•539	.234 0847	.714 292	.583 3313	.589	.255 7994	.802 185	.554 8819
0.540	0.234 5190	1.716 007	0.582 7483	0.590	0.256 2337	1.803 988	0.554 3273
.541	.234 9533	.717 724	.582 1658	.591	.256 6680	.805 793	.553 7732
.542	.235 3876		.581 5839	.592	.257 1023	807 600	.553 2197
·543 ·544	.235 8219 .236 2562	.721 163 .722 885	.581 0026 .580 4219	∙593 ∙594	.257 5366 .257 9709	.809 409 .811 219	.552 6668 .552 1144
0.545	0.236 6905	1.724 608	0.579 8418	0.595	0.258 4052	1.813 031	0.551 5626
.546	.237 1248	.726 334	.579 2622	.596	.258 8395	.814 845	.551 0113
-547	.237 5591	.728 061	.578 6833	- 597	.259 2738	.816 661	.550 4605
.548	.237 9934	.729 790 .731 521	.578 1049 .577 5270	. 598 . 599	.259 7081 .260 1424	.818 478 .820 298	.549 9104 .549 3607
0.550	0.238 8620	1.733 253	0.576 9498	0.600	0.260 5767	1.822 119	0.548 8116
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>ŭ</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e=u

0.605	u	log 10 (e <sup>tt</sup> )	e <sup>u</sup>	e <sup>-u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	eu	e <sup>—u</sup>
.601	0.600	0.0606-	T 800 TTC	0 110 06	0620	0.000		
.602								
.603 .261 8796 .827 593 .547 1677 .553 .283 5943 .921 296 .520 482 .510 6016 .006 .006 .006 .006 .006 .006 .0						.283 1600		
.604				547 1677		.283 5043		
.606	.604					.284 0286		.519 9618
.607								0.519 4421
.608								
.609			826 774			.285 3315		
.611 .265 3539 .842 273 .542 8078 .661 .287 6687 .936 728 .516 334 .661 .265 7882 .844 116 .542 265 3 .662 .287 5029 .938 666 .515 818 .613 .266 2225 .845 961 .541 7233 .663 .287 50372 .940 605 .515 303 .614 .266 6568 .847 808 .541 1818 .664 .288 3715 .942 547 .514 788 .6161 .267 5254 .851 507 .540 1005 .666 .288 2401 .944 491 .514 273 .617 .267 9597 .833 360 .539 5607 .667 .289 6744 .948 318 .513 739 .617 .267 9597 .853 360 .539 5607 .667 .289 6744 .948 318 .512 220 .619 .268 8883 .857 070 .538 4827 .669 .290 5430 .952 284 .512 220 .612 .209 6969 .860 788 .537 4068 .671 .291 4116 .956 193 .511 758 .621 .209 6969 .860 788 .537 4068 .671 .291 4116 .956 193 .511 197 .622 .270 1312 .862 650 .536 8606 .672 .291 8459 .958 150 .510 656 .623 .270 5055 .844 513 .536 3330 .673 .292 2842 .906 109 .510 175 .622 .270 1312 .862 650 .536 8606 .672 .291 8459 .998 150 .510 656 .623 .270 5055 .864 513 .536 3330 .673 .292 2842 .906 109 .510 175 .624 .270 9908 .860 739 .535 7970 .674 .292 7145 .962 070 .509 655 .624 .270 8938 .870 115 .534 7264 .676 .293 5831 .905 998 .508 647 .627 .272 3026 .871 1986 .534 1920 .677 .294 1174 .907 905 .509 655 .628 .271 8438 .870 115 .534 7264 .676 .293 5831 .905 998 .508 637 .628 .272 7360 .873 859 .533 6881 .678 .294 5171 .906 934 .507 631 .629 .273 1712 .875 734 .533 1247 .679 .294 8860 .971 905 .507 123 .624 .274 4741 .881 370 .531 1247 .679 .294 8860 .971 905 .507 123 .624 .274 4741 .881 370 .531 1247 .679 .294 8860 .971 905 .507 123 .633 .274 9784 .883 322 .530 9064 .683 .295 7545 .978 853 .905 610 .635 .277 4770 .885 310 .529 4058 .686 .297 9240 .987 777 .885 310 .529 4058 .686 .297 9240 .987 777 .988 .505 100 .529 4058 .686 .297 9240 .987 777 .988 .505 100 .529 4058 .686 .297 9240 .987 777 .505 328 .698 .524 .907 884 .522 .296 1888 .977 853 .505 100 .698 .299 2289 .991 723 .505 604 .042 .278 8171 .902 179 .525 7120 .033 .000 .277 .9485 .886 310 .529 4058 .686 .299 .2289 .991 723 .505 604 .042 .278 8171 .902 179 .525 7120 .033 .000 .077 .290 573 .000 .077 .000 .073 .000 .077 .000 .077 .000			.838 592	.544 4367				.517 3684
.611 .265 3539 .842 273 .542 8078 .661 .287 5087 .936 728 .515 334 .613 .266 2225 .845 961 .541 7233 .663 .287 5029 .938 666 .515 818 .614 .266 6568 .847 808 .541 1818 .664 .288 3715 .942 547 .514 728 .616 .267 5254 .851 507 .540 1005 .666 .288 2401 .944 91 .514 273 .617 .267 9507 .833 360 .539 507 .667 .289 6744 .948 318 .513 739 .617 .267 9507 .853 360 .539 507 .667 .289 6744 .948 318 .512 220 .618 .268 8283 .857 070 .538 4827 .669 .290 5430 .952 284 .512 220 .612 .269 6969 .860 788 .537 4068 .671 .291 4116 .956 193 .512 739 .617 .209 9509 .860 788 .537 4068 .671 .291 4116 .956 193 .510 586 .623 .270 5055 .864 513 .536 3330 .673 .292 2842 .960 109 .510 586 .623 .270 5055 .864 513 .536 3330 .673 .292 2842 .960 109 .510 175 .624 .270 1932 .862 650 .536 8606 .672 .291 8459 .958 150 .510 686 .623 .270 1832 .866 379 .535 7970 .674 .292 7145 .962 070 .500 655 .662 .271 8453 .870 115 .534 7264 .676 .293 5831 .905 908 .500 655 .622 .271 8453 .870 115 .534 7264 .676 .293 5831 .905 908 .500 655 .622 .271 8083 .870 115 .534 7264 .676 .293 5831 .905 908 .508 647 .627 .272 3026 .871 986 .533 1247 .679 .294 1074 .907 905 .507 123 .622 .773 1712 .875 734 .533 1247 .679 .294 8860 .971 905 .507 123 .622 .774 4741 .881 370 .531 1247 .679 .294 8860 .971 905 .507 123 .633 .274 9781 .881 370 .531 5277 .682 .296 631 .978 88 .505 105 .506 617 .291 4116 .978 88 .506 100 .507 123 .888 100 .529 4088 .532 .295 1888 .977 853 .905 100 .625 .271 8083 .870 115 .534 7264 .676 .293 5831 .905 908 .508 661 .628 .277 3098 .873 859 .533 6581 .678 .294 4511 .906 903 .507 631 .629 .273 1712 .875 734 .533 1247 .679 .294 8860 .971 905 .507 123 .675 7770 .1887 .531 1247 .679 .294 8860 .971 905 .507 123 .633 .274 9781 .881 370 .531 5277 .682 .296 1888 .977 853 .505 104 .633 .274 9848 .883 252 .530 9664 .683 .295 7545 .995 853 .506 110 .604 .275 848 .898 8910 .529 4988 .686 .297 9200 .985 757 .503 586 .633 .277 5770 .1887 .902 .525 578 .500 .685 .297 9200 .985 757 .503 586 .639 .277 5142 .894 585 .526 2898 .902 .288 303 .987 743 .903 .903 .500 .604 .27	0.610	0.264 0106	1.840 431	0.543 3509	0.660	0.286 6344	1.034 702	0.516 851
.612 .265 7882 .844 116 .542 2653 .666 .287 5029 .938 666 .515 803 .614 .266 6258 .847 808 .541 1818 .664 .288 3715 .942 547 .514 788 .614 .266 6568 .847 808 .541 1818 .664 .288 3715 .942 547 .514 788 .616 .267 5254 .851 507 .540 1005 .666 .289 2401 .946 436 .513 739 .616 .267 5254 .851 507 .540 1005 .666 .289 2401 .946 436 .513 739 .618 .268 3940 .855 214 .530 0214 .668 .290 1087 .950 333 .512 733 .619 .268 8283 .857 070 .538 4827 .669 .290 5430 .955 224 .512 220 .620 0.269 2626 .858 928 .537 4068 .671 .291 4116 .956 193 .511 107 .622 .270 1932 .862 650 .536 8606 .672 .291 4116 .956 193 .511 107 .622 .270 1938 .866 379 .535 79070 .674 .292 2802 .960 109 .510 175 .626 .227 0.598 .866 379 .535 79070 .674 .292 27145 .962 070 .509 655 .622 .271 8381 .870 153 .535 2300 .673 .292 2802 .960 109 .510 175 .626 .271 8083 .870 115 .534 7264 .676 .293 5831 .965 908 .508 647 .272 3026 .871 986 .534 1020 .677 .294 4174 .967 905 .508 139 .628 .272 7369 .873 859 .533 6814 .676 .293 8850 .971 .975 853 .506 103 .628 .272 7369 .873 859 .533 681 .678 .294 4517 .969 934 .307 631 .628 .272 3026 .871 986 .534 1020 .677 .294 4517 .969 934 .307 631 .624 .274 3086 .879 485 .532 2050 .688 .294 4517 .969 934 .307 631 .624 .274 3086 .879 485 .532 2050 .688 .294 4517 .969 934 .307 631 .624 .274 3086 .879 485 .532 2050 .688 .294 4517 .969 934 .307 631 .624 .274 3084 .883 325 .533 6581 .678 .294 4517 .969 934 .307 631 .624 .274 3084 .883 325 .533 6581 .678 .294 4517 .969 934 .307 631 .632 .274 4741 .881 .70 .532 5018 .688 .296 1838 .977 829 .505 604 .633 .274 9084 .883 325 .530 964 .683 .296 533 .296 .231 .979 .885 .506 100 .524 .525 .530 964 .683 .296 533 .997 782 .505 604 .633 .274 9084 .883 325 .530 965 .688 .296 388 .977 829 .505 604 .633 .274 9084 .883 325 .530 965 .688 .296 388 .977 829 .505 604 .635 .276 6456 .890 800 .528 8767 .688 .296 303 .377 829 .505 604 .636 .277 248 .817 .902 278 .532 905 .688 .290 909 .723 .505 504 .644 .278 8171 .900 278 .522 908 .524 908 .900 .905 710 .500 774 .904 .907 707 .500 573 .904 .277 5142 .804 585 .			.842 273					
.613	.612				.662	.287 5020		.515 8187
0.615				.541 7233		.287 9372	.940 605	.515 3031
.616	.614	.266 6568	.847 808	.541 1818	.664	.288 3715	.942 547	.514 7881
.617 .267 9597 .853 360 .539 5607 .285 6744 .668 .290 1087 .950 333 .513 246 .618 .268 3940 .855 214 .539 0214 .668 .290 1087 .950 333 .512 230 .619 .268 8883 .857 070 .538 4827 .666 .290 5430 .952 284 .512 230 .621 .269 6969 .860 788 .537 4068 .671 .291 4116 .956 103 .511 197 .622 .270 1312 .862 550 .536 8696 .672 .291 8459 .958 150 .510 686 .621 .270 9908 .866 379 .535 7970 .674 .292 2802 .966 109 .510 175 .624 .270 9908 .866 379 .535 7970 .674 .292 7145 .962 070 .509 665 .624 .270 8083 .870 115 .534 7264 .676 .293 5831 .965 998 .508 647 .627 .272 3026 .871 986 .534 1020 .628 .272 7369 .871 896 .533 1247 .679 .294 8860 .971 905 .507 123 .629 .273 1712 .875 734 .533 1247 .679 .294 8860 .971 905 .507 123 .631 .274 0398 .879 489 .532 595 .631 .274 0398 .879 489 .532 595 .631 .274 0984 .883 352 .530 9964 .683 .274 0984 .883 352 .530 9964 .683 .274 0984 .883 352 .530 9964 .683 .276 3471 .881 370 .531 5277 .682 .296 1888 .977 829 .505 604 .633 .274 0984 .883 352 .530 9964 .683 .296 6131 .979 808 .506 110 .633 .274 0984 .883 352 .530 9964 .683 .296 6131 .979 808 .506 611 .631 .275 3427 .885 136 .529 9355 .684 .297 0574 .981 789 .505 604 .633 .276 0456 .898 800 .528 876 .686 .297 9260 .985 757 .593 566 .638 .276 7770 .1887 022 .529 4058 .686 .297 0574 .981 789 .505 604 .633 .276 0456 .898 800 .528 876 .687 .298 303 .987 743 .503 808 .638 .277 0799 .892 692 .528 3481 .688 .299 2289 .991 723 .502 500 .636 .276 2113 .888 910 .529 4058 .686 .297 9260 .985 757 .503 586 .638 .277 0799 .892 692 .528 3481 .688 .298 7946 .989 732 .503 504 504 .641 .278 8171 .900 278 .526 289 .692 .300 518 .997 707 .500 573 .644 .279 6856 .904 082 .525 1875 .694 .301 4004 .200 706 .499 573 .644 .279 6856 .904 082 .525 1875 .694 .301 4004 .200 706 .499 573 .648 .281 827 .915 017 744 .523 0909 .608 .303 1375 .009 720 .499 573 .648 .281 828 .4288 .911 744 .523 0909 .608 .303 1375 .009 720 .499 573 .648 .281 828 .4288 .911 744 .523 0909 .608 .303 1375 .009 720 .499 573 .649 .281 827 .913 626 .522 5681 .699 .303 31375 .009 720 .497 579 .649 .281 82								0.514 2735
.618								
6.619         .268         8283         .857         070         .538         4827         .669         .290         5430         .952         284         .512         220           0.620         0.269         2626         1.858         928         0.537         9444         0.670         0.290         9773         1.954         237         0.511         708           .621         .269         6969         .860         788         .537         4068         .671         .291         4116         .956         103         .511         170           .622         .270         1312         .862         650         .536         8696         .672         .291         8459         .952         150         .516         155           .624         .270         9908         .866         379         .535         7970         .674         .292         7145         .962         070         .509         650           0.625         0.271         4341         1.868         246         0.535         2614         0.675         0.293         1488         1.964         033         0.509         156           0.627         .272         3026								
.621								.512 2205
.621         .269         6969         .860         788         .537         4068         .671         .291         4116         .956         103         .511         107           .622         .270         1312         .862         650         .536         8696         .672         .291         8459         .958         150         .510         686           .623         .270         9505         .864         513         .536         3330         .673         .292         2802         .960         109         .510         175           .624         .270         9998         .866         379         .535         7970         .674         .292         7145         .962         070         .590         665           .626         .271         4868         .870         115         .534         7264         .676         .293         5831         .965         998         .508         647           .627         .272         3050         .873         859         .533         6581         .677         .294         4870         .969         934         .507         513           .628         .272         3058         .873	0.620	0.269 2626	1.858 928	0.537 9444	0.670	0.290 9773	I.954 237	0.511 7086
.622	.621	.269 6969		.537 4068				.511 1971
.624         .270 9998         .866 379         .535 7970         .674         .292 7145         .962 070         .509 665           0.625         0.271 4341         1.868 246         0.535 2614         0.675         0.293 1488         1.964 033         0.509 156           .626         .271 8683         .870 115         .534 7264         .676         .293 5831         .965 998         .508 647           .627         .272 3026         .871 986         .534 1920         .677         .294 0174         .967 965         .508 139           .628         .272 7369         .873 859         .533 6581         .678         .294 4517         .969 934         .507 631           .629         .273 1712         .875 734         .533 1247         .679         .294 8860         .971 905         .507 123           0.630         0.273 6055         1.877 611         0.532 5918         0.680         0.295 7545         .975 853         .506 170           .631         .274 0398         .889 489         .532 0505         .681         .295 7545         .975 853         .506 170           .632         .274 4741         .881 370         .531 5277         .682         .296 1888         .977 829         .505 604           .633				.536 8696				.510 6862
0.625         0.271         4341         I.868         246         0.535         2614         0.675         0.293         1488         I.964         0.33         0.509         156           .626         .271         8683         .870         115         .534         7264         .676         .293         5831         .965         998         .508         647           .627         .272         3026         .871         986         .534         1920         .677         .294         0174         .967         965         .508         139           .628         .272         7369         .873         859         .533         6581         .678         .294         4517         .969         934         .507         631           .629         .273         1712         .875         734         .532         5018         .6690         .295*3202         1.973         878         .507         631           .631         .274         0.388         .879         489         .532         5055         .681         .295         7545         .975         853         .506         110           .632         .274         4984         .883			864 513					.510 1758
.626         .271 8683         .870 115         .534 7264         .676         .293 5831         .965 998         .508 647           .627         .272 3026         .871 986         .534 1920         .677         .294 0174         .967 965         .508 139           .628         .272 7369         .873 859         .533 6581         .678         .294 4517         .969 934         .507 631           .629         .273 1712         .875 734         .533 1247         .679         .294 8860         .971 905         .507 123           0.630         0.273 6055         1.877 611         0.532 5918         0.680         0.295 7545         .975 853         .506 110           .632         .274 4741         .881 370         .531 5277         .682         .296 1888         .977 829         .505 604           .633         .274 9084         .883 252         .530 9964         .683         .296 6231         .979 808         .505 999           .634         .275 3427         .885 136         .530 4657         .684         .297 0574         .981 789         .504 594           0.635         0.275 7770         1.887 022         0.529 9355         0.685         0.297 4917         1.983 772         0.504 090           .637	.024	.270 9998			•074	.292 7145	.902 070	.509 0050
.627       .272       3026       .871       986       .534       1920       .677       .294       0174       .967       965       .508       139         .628       .272       7369       .873       859       .533       6581       .678       .294       4517       .969       934       .507       631         .629       .273       1712       .875       734       .533       1247       .679       .294       8860       .971       905       .507       123         0.630       0.273       6055       I.877       611       0.532       5918       0.680       0.295*3202       1.973       878       0.506       617         .631       .274       0398       .879       489       .532       0595       .681       .295*545       .975       853       .506       610         .632       .274       4741       .881       370       .531       5277       .682       .296       1888       .978       .505       604         .633       .274       9084       .883       252       .530       9964       .683       .297       0574       .981       789       .504       594								0.509 1564
.628								
.629         .273         1712         .875         734         .533         1247         .679         .294         8860         .971         905         .507         123           0.630         0.273         6055         1.877         611         0.532         5918         0.680         0.295*3202         1.973         878         0.506         617           .631         .274         0398         .879         489         .532         0595         .681         .295         7545         .975         853         .506         110           .632         .274         4741         .881         370         .531         5277         .682         .296         1888         .977         829         .505         604           .633         .274         9084         .883         252         .530         9964         .683         .296         6231         .979         808         .505         099           .634         .275         3427         .885         136         .530         4657         .684         .297         9260         .985         757         .503         586           .635         .276         2113         .888								
0.630         0.273         6055         1.877         611         0.532         5918         0.680         0.295*3202         1.973         878         0.506         617           .631         .274         0398         .879         489         .532         0595         .681         .295         7545         .975         853         .506         110           .632         .274         4741         .881         370         .531         5277         .682         .296         1888         .977         829         .505         604           .633         .274         49084         .883         252         .530         9964         .683         .296         6231         .979         808         .505         699           .634         .275         3427         .885         136         .530         4657         .684         .297         9260         .985         .757         .504         594           0.635         0.275         7770         1.887         022         0.529         9355         0.685         0.297         4917         1.983         772         0.504         090           .636         .276         2113         .888								
.631       .274       0398       .879       489       .532       0595       .681       .295       7545       .975       853       .506       110         .632       .274       4741       .881       370       .531       5277       .682       .296       1828       .977       829       .505       604         .633       .274       9084       .883       252       .530       964       .683       .296       6231       .979       808       .505       509         .634       .275       3427       1.887       022       0.529       9355       0.684       .297       0574       .981       789       .504       594         0.635       0.275       7770       1.887       022       0.529       9355       0.685       0.297       4917       1.983       772       0.504       090         .636       .276       2113       .888       910       .520       4058       .686       .297       9260       .985       757       .503       586         .637       .276       6456       .890       800       .528       3481       .688       .298       7946       .989       732					l	1		
.632								0.500 0170
.633								
.634       .275 3427       .885 136       .530 4657       .684       .297 0574       .981 789       .504 594         0.635       0.275 7770       1.887 022       0.529 9355       0.685       0.297 4917       1.983 772       0.504 090         .636       .276 2113       .888 910       .529 4058       .686       .297 9260       .985 757       .503 586         .637       .276 6456       .890 800       .528 8767       .687       .298 3603       .987 743       .503 083         .638       .277 0799       .892 692       .528 3481       .688       .298 7946       .989 732       .502 580         .639       .277 5142       .894 585       .527 8200       .689       .299 2289       .991 723       .502 580         .640       0.277 9485       1.896 481       0.527 2024       0.690       0.299 6632       1.993 716       0.501 576         .641       .278 3828       .898 378       .526 7654       .691       .300 0975       .995 710       .500 573         .642       .278 8171       .900 278       .526 2389       .692       .300 5318       .997 707       .500 573         .643       .279 2514       .902 179       .525 7129       .693       .300 9661       .999 70								
.636         .276         2113         .888         910         .529         4058         .686         .297         9260         .985         757         .503         586           .637         .276         6456         .890         800         .528         8767         .687         .298         3603         .987         743         .503         083           .638         .277         0799         .892         692         .528         3481         .688         .298         7946         .989         732         .502         580           .639         .277         5142         .894         585         .527         8200         .689         .292         2289         .991         723         .502         580           .639         .277         5142         .894         585         .527         8200         .689         .299         2289         .991         723         .502         580           .641         .278         3828         .898         378         .526         7654         .691         .300         975         .995         710         .501         774           .642         .278         8171         .902			.885 136					.504 5940
.637       .276 6456       .890 800       .528 8767       .687       .298 3603       .987 743       .503 083         .638       .277 0799       .892 692       .528 3481       .688       .298 7946       .989 732       .502 580         .639       .277 5142       .894 585       .527 8200       .689       .299 2289       .991 723       .502 077         0.640       0.277 9485       1.896 481       0.527 2924       0.690       0.299 6632       1.993 716       0.501 576         .641       .278 3828       .898 378       .526 7654       .691       .300 0975       .995 710       .501 074         .642       .278 8171       .900 278       .526 2389       .692       .300 5318       .997 707       .500 573         .643       .279 2514       .902 179       .525 7129       .693       .300 9661       .999 706       .500 073         .644       .279 6856       .904 082       .525 1875       .694       .301 4004       2.001 706       .499 573         0.645       0.280 1199       1.905 987       0.524 6625       0.695       0.301 8347       2.003 709       0.499 074         .646       .280 5542       .907 894       .524 1381       .696       .302 2690       .005				0.529 9355				0.504 0904
.638       .277 0799       .892 692       .528 3481       .688       .298 7946       .989 732       .502 580         .639       .277 5142       .894 585       .527 8200       .689       .299 2289       .991 723       .502 580         0.640       0.277 9485       1.896 481       0.527 2924       0.690       0.299 6632       1.993 716       0.501 576         .641       .278 3828       .898 378       .526 7654       .691       .300 0975       .995 710       .501 074         .642       .278 8171       .900 278       .526 2389       .692       .300 5318       .997 707       .500 573         .643       .279 2514       .902 179       .525 7129       .693       .300 9661       .999 706       .500 073         .644       .279 6856       .904 082       .525 1875       .694       .301 4004       2.001 706       .499 573         0.645       0.280 1199       1.905 987       0.524 6625       0.695       0.301 8347       2.003 709       0.499 074         .646       .280 5542       .907 894       .524 1381       .696       .302 2690       .005 714       .498 575         .647       .280 9885       .909 803       .523 6143       .697       .302 7033       .007							.985 757	.503 5864
.639       .277       5142       .894       585       .527       8200       .689       .299       2289       .991       723       .502       077         0.640       0.277       9485       1.896       481       0.527       2924       0.690       0.299       6632       1.993       716       0.501       576         .641       .278       3828       .898       378       .526       7654       .691       .300       0975       .995       710       .501       074         .642       .278       8171       .900       278       .526       2389       .692       .300       5318       .997       707       .500       573         .643       .279       2514       .902       179       .525       7129       .693       .300       9661       .999       706       .500       073         .644       .279       6856       .904       082       .525       1875       .694       .301       4004       2.001       706       .499       573         0.645       0.280       1199       1.905       987       0.524       6625       0.695       0.301       8347       2.003       709<							987 743	
0.640       0.277 9485       1.896 481       0.527 2924       0.690       0.299 6632       1.993 716       0.501 576         .641       .278 3828       .898 378       .526 7654       .691       .300 0975       .995 710       .501 074         .642       .278 8171       .900 278       .526 2389       .692       .300 5318       .997 707       .500 573         .643       .279 2514       .902 179       .525 7129       .693       .300 9661       .999 706       .500 073         .644       .279 6856       .904 082       .525 1875       .694       .301 4004       2.001 706       .499 573         0.645       0.280 1199       1.905 987       0.524 6625       0.695       0.301 8347       2.003 709       0.499 074         .646       .280 5542       .907 894       .524 1381       .696       .302 2690       .005 714       .498 575         .647       .280 9885       .909 803       .523 6143       .697       .302 7033       .007 720       .498 077         .648       .281 4228       .911 714       .523 0909       .698       .303 1375       .009 729       .497 579         .649       .281 8571       .913 626       .522 5681       .699       .303 5718       .011								
.641       .278 3828       .898 378       .526 7654       .691       .300 0975       .995 710       .501 074         .642       .278 8171       .900 278       .526 2389       .692       .300 5318       .997 707       .500 573         .643       .279 2514       .902 179       .525 7129       .693       .300 9661       .999 706       .500 073         .644       .279 6856       .904 082       .525 1875       .694       .301 4004       2.001 706       .499 573         0.645       0.280 1199       1.905 987       0.524 6625       0.695       0.301 8347       2.003 709       0.499 074         .646       .280 5542       .907 894       .524 1381       .696       .302 2690       .005 714       .498 575         .647       .280 9885       .909 803       .523 6143       .697       .302 7033       .007 720       .498 077         .648       .281 4228       .911 714       .523 0909       .698       .303 1375       .009 729       .497 579         .649       .281 8571       .913 626       .522 5681       .699       .303 5718       .011 740       .497 682	_		٠.					eside a recorderation of
.642       .278       8171       .900       278       .526       2389       .692       .300       5318       .997       707       .500       573         .643       .279       2514       .902       179       .525       7129       .693       .300       9661       .999       706       .500       073         .644       .279       6856       .904       082       .525       1875       .694       .301       4004       2.001       706       .499       573         0.645       0.280       1199       1.905       987       0.524       6625       0.695       0.301       8347       2.003       709       0.499       074         .646       .280       5542       .907       894       .524       1381       .696       .302       2690       .005       714       .498       575         .647       .280       9885       .909       803       .523       6143       .697       .302       7033       .007       720       .498       077         .648       .281       4228       .911       714       .523       0909       .698       .303       1375       .009       729								0.501 576
.643       .279       2514       .902       179       .525       7129       .693       .300       9661       .999       706       .500       073         .644       .279       6856       .904       082       .525       1875       .694       .301       4004       2.001       706       .499       573         0.645       0.280       1199       1.905       987       0.524       6625       0.695       0.301       8347       2.003       709       0.499       074         .646       .280       5542       .907       894       .524       1381       .696       .302       2690       .005       714       .498       575         .647       .280       9885       .909       803       .523       6143       .697       .302       7033       .007       720       .498       077         .648       .281       4228       .911       714       .523       0909       .698       .303       1375       .009       729       .497       579         .649       .281       8571       .913       626       .522       5681       .699       .303       5718       .011       740								
.644       .279       6856       .904       082       .525       1875       .694       .301       4004       2.001       706       .499       573         0.645       0.280       1199       1.905       987       0.524       6625       0.695       0.301       8347       2.003       709       0.499       074         .646       .280       5542       .907       894       .524       1381       .696       .302       2690       .005       714       .498       575         .647       .280       9885       .909       803       .523       6143       .697       .302       7033       .007       720       .498       579         .648       .281       4228       .911       714       .523       9090       .698       .303       1375       .009       729       .497       579         .649       .281       8571       .913       626       .522       5681       .699       .303       5718       .011       740       .497       082								
.646     .280 5542     .907 894     .524 1381     .696     .302 2690     .005 714     .498 575       .647     .280 9885     .909 803     .523 6143     .697     .302 7033     .007 720     .498 077       .648     .281 4228     .911 714     .523 0909     .698     .303 1375     .009 729     .497 579       .649     .281 8571     .913 626     .522 5681     .699     .303 5718     .011 740     .497 082								499 573
.646     .280 5542     .907 894     .524 1381     .696     .302 2690     .005 714     .498 575       .647     .280 9885     .909 803     .523 6143     .697     .302 7033     .007 720     .498 077       .648     .281 4228     .911 714     .523 0909     .698     .303 1375     .009 729     .497 579       .649     .281 8571     .913 626     .522 5681     .699     .303 5718     .011 740     .497 082	0.645	0.280 1199	1.905 987	0.524 6625	0.695	0.301 8347	2.003 709	0.499 0744
.648		.280 5542						
.649 .281 8571 .913 626 .522 5681 .699 .303 5718 .011 740 .497 082								498 0773
0.050   0.282 2914   1.915 541   0.522 0458   0.700   0.304 0061   2.013 753   0.496 585		•			1 .		}	
	0.650	0.282 2914	1.915 541	0.522 0458	0.700	0.304 0061	2.013 753	0.496 585

u	log <sub>10</sub> (e <sup>11</sup> )	e <sup>u</sup>	e <sup>u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
0.700	0.304 0061	2.013 753	0.496 5853	<b>0.</b> 750	0.325 7209	2.117 000	0.472 366
701	304 4404	.015 767	.496 0890	.751	.326 1552	.119 118	471 894
702	.304 8747	.017 784	495 5931	.752	.326 5895	.121 238	.471 422
.703	305 3000	.019 803	.495 0978	753	.327 0237	. 123 361	.470 951
.704	.305 7433	.021 824	.494 6029	754	.327 4580	.125 485	.470 480
0.705	0.306 1776	2.023 847	0.494 1086	0.755	0.327 8923	2.127 612	0.470 010
.706	.306 6119	.025 872	.493 6147	.756	.328 3266	.129 740	.469 540
707	.307 0462	.027 898	.493 1213	•757	.328 7609	.131 871	.469 071
.708	.307 4805	.029 927	.492 6285	.758	.329 1952	.134 004	.468 602
.709	.307 9148	.031 958	.492 1361	759	.329 6295	.136 139	.468 134
0.710	0.308 3491	2.033 991	0.491 6442	0.760	0.330 0638	2.138 276	0.467 666
.711	.308 7834	.036 026	.491 1528	.761	.330 4981	.140 416	.467 199
.712	309 2177	.038 063	.490 6619 .490 1715	.762 ° .763	.330 9324 .331 3667	.142 557	.466 732 .466 265
.713 .714	.309 6520 .310 0863	.040 102	.489 6815	.764	.331 8010	.146 846	.465 799
./14	.310 0003					1 199	
0.715	0.310 5206	2.044 187 .046 232	0.489 1921 .488 7032	0.765 .766	0.332 2353 .332 6696	2.148 994 .151 144	0.465 333 .464 868
.717	.311 3891	.048 279	.488 2147	.767	333 1039	.153 297	.464 404
.718	.311 8234	.050 328	.487 7267	768	333 5382	155 451	.463 940
.719	.312 2577	.052 380	.487 2393	.769	333 9725	.157 608	.463 476
0.720	0.312 6920	2.054 433	0.486 7523	0.770	0.334 4068	2.159 766	0.463 013
721	.313 1263	.056 489	.486 2657	.771	.334 8410	.161 927	.462 550
722	.313 5606	.058 546	.485 7797	.772	335 2753	.164 090	.462 088
.723	.313 9949	.060 606	.485 2942	·773	.335 7096	.166 255	.461 626
.724	.314 4292	.062 667	.484 8091	•774	.336 1439	.168 423	.461 164
0.725	0.314 8635	2.064 731	0.484 3246	0.775	0.336 5782	2.170 592	0.460 703
.726	.315 2978	.066 797	.483 8405	.776	.337 0125	172 764	.460 243
.727	.315 7321	.068 865	.483 3569	-777	.337 4468	.174 938	.459 783
.728 .729	.316 1664 .316 6007	.070 935	.482 8738 .482 3911	.778 -779	.337 8811	.177 114	.459 323 .458 864
			0.481 9090	0.780	0.338 7497	2.181 472	0.458 406
0.730	0.317 0350	2.075 081	.481 4273	.781	.339 1840	.183 655	·457 947
.731 .732	.317 4693 .317 9036	.077 157	.480 9461	.782	.339 6183	.185 840	457 490
733	.318 3379	.081 315	.480 4654	783	340 0526	.188 027	457 032
.734	.318 7721	.083 398	.479 9852	.784	.340 4869	.190 216	.456 576
0.735	0.319 2064	2.085 482	0.479 5055	0.785	0.340 9212	2.192 407	0.456 119
.736	.319 6407	.087 569	.479 0262	.785	341 3555	.194 600	.455 663
.737	.320 0750	.089 657	.478 5474	787	.341 7898	196 796	.455 208
.738	.320 5093	.091 748	.478 0691	.788	.342 2241	198 994	•454 753
.739	.320 9436	.093 841	·477 5913	.789	.342 6583	.201 194	.454 298
0.740	0.321 3779	2.095 936	0.477 1139	0.790	0.343 0926	2,203 396	0.453 844
.741	.321 8122	.098 032	.476 6370	•791	.343 5269	.205 601	•453 391
.742	.322 2465	100 132	.476 1606	.792	343 9612	.207 808	452 938
·743 ·744	.322 6808	.102 233 .104 336	.475 6847 .475 2093	·793 ·794	344 3955 344 8298	.210 017	.452 485 .452 033
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2.106 441	0.474 7343	0.795	0.345 2641	2.214 441	0.451 581
0.745	0.323 5494 .323 9837	108 549	.474 2598	.796	345 6984	.216 657	451 129
.747	324 4180	.110 659	.473 7858	•797	346 1327	.218 874	450 679
.748	.324 8523	.112 770	.473 3122	.798	346 5670	.221 094	.450 228
749	.325 2866	.114 884	.472 8392	799	.347 0013	.223 316	·449 778
0.750	0.325 7209	2.117 000	0.472 3666	0.800	o.347 4356	2.225 541	0.449 329
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-1</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>

.801 .802 .803 .804 .805 .806 .807 .808 .809 .811 .812 .813 .814 .819 .816 .817 .818 .819 .822 .823 .824 .825 .826 .827 .828 .829 .830 .831 .832 .833 .834	0.347 4356 .347 8699 .348 3042 .348 7385 .349 1728 0.349 6071 .350 0414 .350 4756 .350 9099 .351 3442 0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 8186 .355 2529 .355 6872 0.356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272 .359 1615	2.225 54II .227 768 .229 996 .232 228 .234 46I  2.236 696 .238 934 .24I 174 .243 417 .245 66I  2.247 908 .250 157 .252 408 .254 662 .256 918  2.259 176 .261 436 .263 699 .265 963 .268 230  2.270 500 .272 77I .275 045 .277 322 .279 600  2.281 881 .284 164 .286 449	0.449 3290 .448 8799 .448 4312 .447 9830 .447 5352 0.447 6879 .446 6411 .446 1946 .445 7487 .445 3031 0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 9123 .438 6734 0.438 2350 .437 7970 .437 3594	0.850 .851 .852 .853 .854 0.855 .856 .857 .858 .859 0.860 .861 .862 .863 .864 0.865 .866 .867 .866 .869 0.870 .871 .872 .873	0.369 1503 .369 5846 .370 0189 .370 4532 .370 8875  0.371 3218 .371 7561 .372 1904 .372 6247 .373 0590  0.373 4933 .373 9275 .374 3618 .374 7961 .375 6647 .376 9533 .376 9676 .377 4019  0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734  0.380 0077	2.339 647 .341 988 .344 331 .346 676 .349 024 2.351 374 .353 727 .356 082 .358 439 .360 799 2.363 161 .365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .375 006 .377 382 .384 525	0.427 4149 .426 9877 .426 5610 .426 1346 .425 7087  0.425 2832 .424 8581 .424 4335 .424 0093 .423 1621 .422 7391 .422 3106 .421 4728  0.421 0516 .420 6307 .420 2103 .419 7903 .419 3707  0.418 9515 .417 6966 .417 2791  0.416 8620
.802 .803 .804 0.805 .806 .807 .808 .809 0.810 .811 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.830 0.831 0.833 .834	.348 3042 .348 7385 .349 1728 0.349 6071 .350 0414 .350 4756 .350 9099 .351 3442 0.351 7785 .352 2128 .352 6471 .353 5157 0.353 9500 .354 3814 .353 814 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.229 996 .232 228 .234 461  2.236 696 .238 934 .241 174 .243 417 .245 661  2.247 908 .250 157 .252 408 .254 662 .256 918  2.259 176 .261 436 .263 699 .265 963 .268 230  2.270 500 .272 771 .275 045 .277 322 .279 600  2.281 881 .284 164	.448 4312 .447 9830 .447 5352 0.447 0879 .446 6411 .446 1946 .445 7487 .445 3031 0.444 8581 .444 4134 .443 9822 0.442 6393 .442 1969 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 9914 .439 5517 .439 6734 0.438 2350 .437 7970	.852 .853 .854 0.855 .856 .857 .858 .859 0.860 .861 .862 .863 .864 0.865 .866 .867 .868 .869 0.871 .872 .873 .874	370 0189 370 4532 370 8875 0.371 3218 371 7561 372 1904 372 6247 373 0590 0.373 4933 373 9275 374 3618 374 7061 375 2304 0.375 6647 376 0990 376 5333 376 9676 377 4019 0.377 8362 378 2705 378 7048 379 1391 379 5734 0.380 0077	.344 331 .346 676 .349 024 2.351 374 .353 727 .356 082 .358 439 .360 799 2.363 161 .365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.425 5610 .426 1346 .425 7087 0.425 2832 .424 8581 .424 4335 .424 0093 .423 5855 0.423 1621 .422 7391 .422 3166 .421 8945 .421 4728 0.421 0516 .420 6307 .420 2103 .419 7903 .419 7903 .418 5328 .418 1148 .417 6966 .417 2791
.803 .804 0.805 .806 .807 .808 .809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.830 0.831 0.833 .834	.348 7385 .349 1728 0.349 6071 .350 0414 .350 4756 .350 9099 .351 3442 0.351 7785 .352 2128 .353 0814 .353 5157 0.353 9500 .354 3843 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.232 228 .234 461 2.236 696 .238 934 .241 174 .243 417 .245 661 2.247 908 .250 157 .252 408 .254 662 .256 918 2.259 176 .261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.447 9830 .447 5352 0.447 6879 .446 6411 .446 1946 .445 7487 .445 3031 0.444 8581 .444 4134 .443 9692 .443 5255 .443 6822 0.442 6393 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 9914 .439 5517 .439 6734 0.438 2350 .437 7970	.853 .854 0.855 .856 .857 .858 .859 0.860 .861 .862 .863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	.370 4532 .370 8875 0.371 3218 .371 7561 .372 1904 .372 6247 .373 0590 0.373 4933 .373 9275 .374 3618 .374 7961 .375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.346 676 .349 024  2.351 374 .353 727 .356 082 .358 439 .360 799  2.363 161 .365 525 .370 261 .372 632  2.375 006 .377 382 .379 761 .382 142 .384 525  2.386 911 .389 299 .391 689 .394 082 .396 478	.426 1346 .425 7087  0.425 2832 .424 8581 .424 4335 .424 0093 .423 5855  0.423 1621 .422 7391 .421 8945 .421 4728  0.421 0516 .420 2103 .419 7903 .419 3707  0.418 9515 .418 5328 .418 1145 .417 6966 .417 2791
.804 0.805 .806 .807 .808 .809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 0.821 .822 .823 .824 0.825 0.826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835	.349 1728  0.349 6071 .350 0414 .350 4756 .350 9099 .351 3442  0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157  0.353 9500 .354 3843 .354 8186 .355 2529 .356 872  0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587  0.358 2929 .358 7272	2.234 461 2.236 696 .238 934 .241 174 .243 417 .245 661 2.247 908 .250 157 .252 408 .254 662 .256 918 2.259 176 .261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	0.447 5352  0.447 0879 .446 6411 .446 1946 .445 7487 .445 3031  0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822  0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723  0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734  0.438 2350 .437 7970	.854  0.855 .856 .857 .858 .859  0.860 .861 .862 .863 .864  0.865 .866 .867 .868 .869  0.870 .872 .873 .874  0.875	370 8875  0.371 3218 371 7561 372 1904 372 6247 373 0590  0.373 4933 373 9275 374 3618 374 7961 375 6247 376 9390  0.377 8362 376 9676 377 4019  0.378 2705 378 7048 379 1391 379 5734  0.380 0077	2.351 374 2.351 374 353 727 356 082 358 439 360 799 2.363 161 365 525 367 892 370 261 372 632 2.375 006 2.375 382 2.379 761 382 142 384 525 2.386 911 389 299 391 689 394 082 396 478	0.425 2832 .424 8581 .424 4335 .424 0003 .423 5855 0.423 1621 .422 7391 .422 3106 .421 4726 .421 4726 0.421 0516 .420 2103 .419 7903 .419 3707 0.418 9519 .418 5328 .418 1149 .417 6966 .417 2791
.806 .807 .808 .809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834	.350 0414 .350 4756 .350 9099 .351 3442 0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.238 934 .241 174 .243 417 .245 661 2.247 908 .250 157 .252 408 .254 662 .256 918 2.259 176 .261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.446 6411 .446 1946 .445 7487 .445 3031 0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.856 .857 .858 .859 0.860 .861 .862 .863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	.371 7561 .372 1904 .372 6247 .373 0590 0.373 4933 .373 9275 .374 3618 .374 7061 .375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.353 727 .356 082 .358 439 .360 799 2.363 161 .365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	.424 8581 .424 4333 .424 0093 .423 5855 0.423 1621 .422 7390 .422 3106 .421 4728 0.421 0510 .420 6309 .420 2103 .419 7903 .419 3709 0.418 9511 .418 5328 .418 1144 .417 6966 .417 279
.807 .808 .809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834	.350 4756 .350 9099 .351 3442 0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 3843 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.24I 174 .243 417 .245 661 2.247 908 .250 157 .252 408 .254 662 .256 918 2.259 176 .261 436 .263 909 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.446 1946 .445 7487 .445 3031 0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.857 .858 .859 0.860 .861 .862 .863 .864 0.865 .866 .866 .869 0.870 .871 .872 .873 .874	.372 1904 .372 6247 .373 0590 0.373 4933 .373 9275 .374 3618 .374 7961 .375 6304 0.375 6649 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.353 727 .356 082 .358 439 .360 799 2.363 161 .365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.421 4335 424 0003 423 5855 0.423 1621 422 7390 422 3100 421 4726 421 4726 0.421 0510 420 2103 419 7903 419 3707 0.418 9513 418 5326 417 6966 417 279
.808 .809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .824 0.825 .827 .828 .829 0.830 0.831 .832 .833 .834	.350 9099 .351 3442 0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	243 417 .245 661 2.247 908 .250 157 .252 408 .254 662 .256 918 2.259 176 .261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.445 7487 .445 3031 0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .436 6734 0.438 2350 .437 7970	.858 .859 0.860 .861 .862 .863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	.372 6247 .373 0590 0.373 4933 .373 9275 .374 3618 .374 7961 .375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	358 439 .360 799 2.363 161 .365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.423 1621 .422 7391 .422 3166 .422 3166 .421 894 .421 4726 0.421 0516 .420 630 .420 210 .419 790 .419 370 0.418 951 .418 5326 .418 114 .417 6966 .417 279
.809 0.810 0.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835 0.835	.351 3442  0.351 7785 .352 2128 .352 6471 .353 0814 .353 5157  0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872  0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587  0.358 2929 .358 7272	2.245 661  2.247 908 .250 157 .252 408 .254 662 .256 918  2.259 176 .261 436 .263 699 .265 963 .268 230  2.270 500 .272 771 .275 045 .277 322 .279 600  2.281 881 .284 164	0.444 8581 .444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.859  0.860 .861 .862 .863 .864  0.865 .866 .867 .868 .869  0.870 .871 .872 .873 .874  0.875	0.373 4933 .373 9275 .374 3618 .374 7961 .375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.360 799  2.363 161 .365 525 .367 892 .370 261 .372 632  2.375 006 .377 382 .379 761 .382 142 .384 525  2.386 911 .389 299 .391 689 .394 082 .396 478	0.423 5855 0.423 1621 .422 7390 .421 8945 .421 4726 0.421 0516 .420 6300 .420 2100 .419 7900 .419 3700 0.418 9513 .418 5326 .418 1144 .417 6966 .417 2790
.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835	.352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	250 157 252 408 254 662 256 918 2.259 176 261 436 263 699 265 963 268 230 2.270 500 272 771 275 045 277 322 279 600 2.281 881 284 164	.444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.861 .862 .863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	373 9275 374 3618 374 7961 375 2304 0.375 6647 376 0909 376 5333 376 9676 377 4019 0.377 8362 378 2705 378 7048 379 1391 379 5734 0.380 0077	.365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.422 739 .422 3166 .421 894 .421 4728 0.421 0516 .420 630 .420 210 .419 790 .419 370 0.418 951 .418 5328 .418 114 .417 696 .417 279
.811 .812 .813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835	.352 2128 .352 6471 .353 0814 .353 5157 0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	250 157 252 408 254 662 256 918 2.259 176 261 436 263 699 265 963 268 230 2.270 500 272 771 275 045 277 322 279 600 2.281 881 284 164	.444 4134 .443 9692 .443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.861 .862 .863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	373 9275 374 3618 374 7961 375 2304 0.375 6647 376 0909 376 5333 376 9676 377 4019 0.377 8362 378 2705 378 7048 379 1391 379 5734 0.380 0077	.365 525 .367 892 .370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.422 7391 .422 3166 .421 8941 .421 4728 0.421 0516 .420 6307 .420 2100 .419 7900 .419 3707 0.418 9511 .418 5328 .418 1141 .417 6960 .417 2791
.813 .814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835	.353 0814 .353 5157 0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	2.254 662 .256 918 2.259 176 .261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	0.443 5255 .443 0822 0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.863 .864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	.374 7961 .375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.370 261 .372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.421 894 .421 472 0.421 0510 .420 630; .420 210; .419 790; .419 370; 0.418 951; .418 532 .418 114, .417 696; .417 279;
0.814 0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835	.353 5157  0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872  0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587  0.358 2929 .358 7272	.256 918  2.259 176 .261 436 .263 699 .265 963 .268 230  2.270 500 .272 771 .275 045 .277 322 .279 600  2.281 881 .284 164	0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.864 0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	.375 2304 0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.372 632 2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.421 4728 0.421 0516 .420 6307 .420 2100 .419 7900 .419 3707 0.418 9511 .418 5328 .418 1144 .417 6966 .417 279
0.815 .816 .817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .826 .827 .828 .829 0.830 .831 .832 .833 .834	0.353 9500 .354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	2.259 176 .261 436 .263 699 .265 963 .268 230  2.270 500 .272 771 .275 045 .277 322 .279 600  2.281 881 .284 164	0.442 6393 .442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	0.865 .866 .867 .868 .869 0.870 .871 .872 .873 .874	0.375 6647 .376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	2.375 006 .377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	0.421 0516 .420 630; .420 210; .419 790; .419 370; 0.418 951; .418 532; .418 114; .417 696; .417 279;
.816 .817 .818 .819 0.820 .821 .823 .824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834	.354 3843 .354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	261 436 .263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.442 1969 .441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.866 .867 .868 .869 0.870 .871 .872 .873 .874	.376 0990 .376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.377 382 .379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	.420 630; .420 210; .419 790; .419 370; 0.418 951; .418 532; .418 114; .417 696; .417 279;
.817 .818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834	.354 8186 .355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.263 699 .265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.441 7549 .441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.867 .868 .869 .870 .871 .872 .873 .874	0.376 5333 .376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.379 761 .382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	.420 210 .419 790 .419 370 0.418 951 .418 532 .418 114 .417 696 .417 279
.818 .819 0.820 .821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834	.355 2529 .355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.265 963 .268 230 2.270 500 .272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.441 3134 .440 8723 0.440 4317 .439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.868 .869 0.870 .871 .872 .873 .874	.376 9676 .377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.382 142 .384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	.419 790 .419 3707 0.418 951 .418 532 .418 114 .417 696 .417 279
0.820 0.821 .822 .823 .824 0.825 0.826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835 0.835 0.836	.355 6872 0.356 1215 .356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	. 268 230  2.270 500 .272 771 .275 045 .277 322 .279 600  2.281 881 .284 164	0.440 4317 -439 9914 -439 5517 -439 1123 -438 6734 0.438 2350 -437 7970	.869 0.870 .871 .872 .873 .874	0.377 4019 0.377 8362 .378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.384 525 2.386 911 .389 299 .391 689 .394 082 .396 478	.419 3707 0.418 9513 .418 5328 .418 1143 .417 6966 .417 279
.821 .822 .823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834	.356 5558 .356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.272 771 .275 045 .277 322 .279 600 2.281 881 .284 164	.439 9914 .439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.871 .872 .873 .874	.378 2705 .378 7048 .379 1391 .379 5734 0.380 0077	.389 299 .391 689 .394 082 .396 478	.418 5328 .418 1145 .417 6966 .417 279
.822 .823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834 0.835	.356 9901 .357 4244 .357 8587 0.358 2929 .358 7272	.275 045 .277 322 .279 600 2.281 881 .284 164	.439 5517 .439 1123 .438 6734 0.438 2350 .437 7970	.872 .873 .874	.378 7048 .379 1391 .379 5734 0.380 0077	.391 689 .394 082 .396 478	.418 114 .417 696 .417 279
.823 .824 0.825 .826 .827 .828 .829 0.830 .831 .832 .833 .834 0.835	357 4244 357 8587 0.358 2929 358 7272	.277 322 .279 600 2.281 881 .284 164	.439 I123 .438 6734 0.438 2350 .437 7970	.873 .874 0.875	.379 1391 .379 5734 0.380 0077	.394 082 .396 478	.417 6960 .417 279
0.824 0.825 .826 .827 .828 .829 0.830 0.831 .832 .833 .834 0.835 0.835	0.358 2929 0.358 7272	2.281 881 2.284 164	.438 6734 0.438 2350 .437 7970	.874 0.875	0.380 0077	.396 478	.417 279
.826 .827 .828 .829 0.830 .831 .832 .833 .834 0.835	.358 7272	.284 164	.437 7970			2.398 875	0.416 8620
.826 .827 .828 .829 0.830 .831 .832 .833 .834 0.835	.358 7272		.437 7970				
.828 .829 0.830 .831 .832 .833 .834 0.835 .836	.359 1615	.286 440	127 2501		.380 4420	.401 275	.416 4454
.829 0.830 .831 .832 .833 .834 0.835 .836				.877	380 8763	.403 678	.416 029
0.830 .831 .832 .833 .834 0.835	359 5958	.288 737	.436 9223 .436 4856	.878 .879	.381 3106	.406 083 .408 490	.415 613
.831 .832 .833 .834 0.835 .836	.360 0301	.291 027		-			.415 1979
.832 .833 .834 0.835 .836	0.360 4644	2.293 319	0.436 0493	0.880 .881	0.382 1791	2.410 900	0.414 782
.833 .834 0.835 .836	.360 8987 .361 3330	.295 613	.435 6135 .435 1781	.882	.382 6134	.413 312	414 368
0.835 0.836	.361 7673	.300 209	·434 7431	.883	.383 4820	.418 143	.413 540
.836	362 2016	.302 510	.434 3086	.884	.383 9163	.420 563	.413 127
	0.362 6359	2.304 814	0.433 8745	0.885	0.384 3506	2.422 984	0.412 714
	.363 0702	.307 120	.433 4408	.886	.384 7849	.425 409	.412 301
	.363 5045 .363 9388	.309 428	.433 0076	.887 .888	.385 2192	.427 835 .430 264	411 4779
839	364 3731	.314 052	.432 1424	.889	386 0878	432 696	.411 0666
o.840 c	0.364 8074	2.316 367	0.431 7105	0.890	0.386 5221	2.435 130	0.410 655
.841	.365 2417	.318 685	.431 2790	.891	.386 9564	.437 566	.410 245
.842	365 6760	.321 004	430 8480 430 4173	.892 .893	.387 3907 .387 8250	.440 005	.409 835; .409 425
.844	.366 1102 .366 5445	·323 327 ·325 651	.429 9871	.893	.388 2593	442 446 444 890	.409 423
0.845	0.366 9788	2.327 978	0.429 5574	0.895	0.388 6936	2.447 336	0.408 6070
.846	.367 4131	.330 307	.429 1280	.896	.389 1279	.449 784	.408 199
	367 8474	.332 638	.428 6991	.897 808	389 5622	.452 235	.407 791
.848 .849	.368 2817 .368 7160	·334 972 ·337 308	.428 2706 .427 8426	.898 .899	389 9964	.454 689 .457 145	.407 383 .406 976
_			0 107 1710	0.000	~	2.459 603	0.406 569
log <sub>e</sub> (e <sup>u</sup> )	0.369 1503	2.339 647	0.427 4149	0.900	0.390 8650	2.459 003	المحدد المحدد ا

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	·· e <sup>u</sup>	9-u	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>
0.900	0.390 8650	2.459 603	o.406 5697	0.950	0.412 5798	2.585 710	0.386 7410
.901	.391 2993	.462 064	.406 1633	.951	.413 0141	.588 297	.386 3545
.902	.391 7336	.464 527	.405 7573	.952	.413 4483	590 886	.385 9683
.903		.466 993	.405 3518	•953	.413 8826	593 478	.385 5825
.904	.392 6022	.469 461	.404_9466	•954	.414 3169	.596 073	.385 1971
0.905		2.471 932	0.404 5419 .404 1375	0.955	0.414 7512 .415 1855	2.598 671 .601 271	0.384 8121
.906		.474 405 .476 881	.403 7336	.956 .957	.415 6198	.603 873	.384 4275 .384 0433
.908		479 359	.403 3301	.958	.415 0541	.606 478	.383 6594
.900		.481 839	.402 9269	•959	.416 4884	.609 086	383 2760
0.910	0.395 2080	2.484 323	0.402 5242	0.960	0.416 9227	2.611 696	0.382 8929
.911		.486 808	.402 1219	.961	.417 3570	.614 300	.382 5102
.912		.489 296	.401 7200	.962	.417 7913	.616 925	.382 1279
.913		.491 787	.401 3185	.963	.418 2256	.619 543	.381 7459
.914	396 9452	.494 280	.400 9173	.964	.418 6599	.622 164	.381 3644
0.91		2.496 775	0.400 5166	0.965	0.419 0942	2.624 788	0.380 9832
.916		499 273	.400 1163	.966	.419 5285	.627 414	.380 6024
.917 .918		.501 774 .504 277	.399 7164 .399 3169	.967 .968	.419 9628 .420 3971	.630 042 .632 674	.380 2220
.910		.506 782	.398 9178	.969	.420 8314	.635 308	.379 4623
0.920	0.399 5509	2.509 290	0.308 5190	0.970	0.421 2656	2.637 944	0.379 0830
.92		.511 801	.398 1207	.971	421 6999	.640 584	.378 7041
.922		.514 314	.397 7228	.972	.422 1342	.643 226	.378 3256
.923		.516 830	397 3253	•973	.422 5685	.645 870	377 9475
.92/	.401 2881	.519 348	.396 9281	·974	.423 0028	.648 517	377 5697
0.925		2.521 868	0.396 5314	0.975	0.423 4371	2.651 167	0.377 1924
.920		.524 391	.396 1351	.976	.423 8714	.653 820	.376 8153
.927	402 5910	.526 917	395 7391	•977	.424 3057	.656 475	.376 4387
.928		.529 445 .531 976	.395 3436 .394 9485	.978 .979	.424 7400 .425 1743	.659 133 .661 <i>7</i> 93	.376 0625 .375 6866
				0.980		4.5	
0.930 •931		2.534 509 .537 045	0.394 5537 .394 1594	.981	0.425 6086	2.664 456 .667 122	0.375 3111 .374 9360
.93	and the control of th	.539 583	393 7654	.982	.426 4772	.669 790	.374 5612
.933		.542 124	.393 3718	.983	.426 9115	.672 462	.374 1869
•93		.544 668	.392 9786	.984	.427 3458	.675 135	.373 8129
0.93		2.547 213	0.392 5859	0.985	0.427 7801	2.677 812	0.373 4392
.930	6 .406 4996	.549 762	.392 1935	.986	.428 2144	.680 491	.373 0660
•93	406 9339	.552 313	.391 8015	.987	.428 6487	.683 173	.372 6931
.938 .939		554 867	.391 4099 .391 0187	.988 .989	.429 0829	.685 857 .688 545	.372 3206 .371 9485
0.940		2.559 981	0.390 6278	0.990		2.691 234	0.371 5767
.94		562 543	390 2374	.99I	0.429 9515	.693 927	.371 2053
.94	ote in est a 20 G is AMADA in		.389 8474	.992	.430 8201	.696 622	.370 8343
.94		.567 673	.389 4577	.993	.431 2544	.699 320	.370 4636
•94		.570 242	.389 0684	•994	.431 6887	.702 021	.370 0934
0.94		2.572 813	<b>5.</b> 388 6796	0.995	0.432 1230	2.704 724	0.369 7234
.940		.575 387	.388 2911	.996	•432 5573	. <i>7</i> 07 430	.369 3539
.94		.577 964	.387 9030	.997	.432 9916	.710 139	.368 9847
·94		.580 543 .583 125	.387 5153 .387 1280	.998	.433 4259 .433 8602	.712 851 .715 565	.368 6159 .368 2475
0.95		2.585 710	0.386 7410	1.000	0.434 2945	2.718 282	<b>0.3</b> 67 8794
log <sub>e</sub> (e <sup>u</sup>	) log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	fog <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>
					CONTO M		

u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>
1.000	0.434 2945	2.718 282	0.367 8794	1.050	0.456 0092	2.857 651	0.349 93
.001	434 7288	.721 001	.367 5117	.051	.456 4435	.860 510	.349 58
.002	.435 1631	.723 724	367 1444	.052	.456 8778	.863 372	.349 23
.003	435 5974	.726 449	366 7775	.053	.457 3121	.866 237	348 88
.004	·436 0317	.729 177	.366 4109	.054	·457 7464	.869 105	.348 54
1.005	0.436 4660	2.731 907	0.366 0446	1.055	0.458 1807	2.871 975	0.348 19
.006	.436 9002	.734 641	.365 6788	.056	.458 6150	.874 849	347 84
.007	·437 3345	•737 377	.365 3133 .364 9481	.057	459 0493	.877 725	•347 49
.008 .009	.437 7688 .438 2031	.740 115	.364 5834	.058	.459 4836 .459 9179	.880 604 .883 486	.347 14 .346 80
1.010	0.438 6374	2.745 601	0.364 2190	1.060	0.460 3522	2.886 371	0.346 45
.010	.439 0717	.748 348	.363 8549	.061	460 7864	.889 259	.346 10
.012	.439 5060	.751 098	.363 4913	.062	.461 2207	.892 150	·345 76
.013	.439 9403	.753 850	.363 1280	.063	.461 6550	.895 043	345 41
.014	.440 3746	.756 605	.362 7650	.064	.462 0893	.897 940	•345 07
1.015	0.440 8089	2.759 363	0.362 4024	1.065	0.462 5236	2.900 839	0.344 72
.016	.441 2432	.762 124	.362 0402	.066	.462 9579	.903 741	.344 38
.017	.441 6775	.764 888	.361 6783	.067	.463 3922	.906 646	.344 03
.018	.442 1118	.767 654	.361 3169	.068 .069	.463 8265	.909 555	.343 69
.019	442 5461	.770 423	.360 9557	.009	·464 2608	.912 466	•343 35
1.020	0.442 9804	2.773 195	0.360 5949	1.070	0.464 6951	2.915 379	0.343 00
.021	443 4147	.775 969	.360 2345	.071	.465 1294	.918 296	.342 66
.022	.443 8490	.778 747 .781 527	.359 8745	.072 .073	.465 5637 .465 9980	.921 216 .924 139	.342 32
.023	444 7175	.784 310	.359 1554	.074	.466 4323	.927 064	.341 98
1.025	0.445 1518	2.787 095	o.358 7965	1.075	0.466 8666	2.929 993	0.341 20
.026	.445 5861	.789 884	.358 4378	.076	.467 3009	.932 924	340 95
.027	.446 0204	.792 675	.358 0796	.077	.467 7352	.935 859	.340 61
.028	-446 4547	.795 469	.357 7217	.078	.468 1695	.938 796	.340 27
.029	.446 8890	.798 266	•357 3641	.079	.468 6037	.941 736	· <b>3</b> 39 93
1.030	0.447 3233	2.801 066	0.357 0070	1.080	0.469 0380	2.944 680	0.339 59
.031	·447 7576	.803 868	.356 6501	.081	.469 4723	.947 626	·339 25
.032	.448 1919 .448 6262	.806 674 .809 482	.356 2937	.082	.469 9066 .470 3409	.950 575	.338 91
.033 .034	.449 0605	.812 293	.355 9375 .355 5818	.084	470 7752	.953 527 .956 482	.338 57 .338 23
T 02"	0.449 4948	2.815 106	0.355 2264	1.085	0.471 2005	2.959 440	0.337 90
.035	.449 9291	.817 923	.354 8713	.086	.471 6438	.062 401	337 56
.037	450 3634	.820 742	.354 5166	.087	472 0781	.965 365	.337 22
.038	.450 7977	.823 564	.354 1623	.088	.472 5124	.968 331	336 88
.039	.451 2320	.826 389	.353 8083	.089	.472 9467	.971 301	.336 55
I. <b>0</b> 40	0.451 6663	2.829 217	0.353 4547	1.090	0.473 3810	2.974 274	0.336 21
.041	.452 1006	.832 048	.353 1014	. <b>0</b> 91	.473 8153	.977 250	.335 88
.042	452 5349	.834 881	352 7485	.092	474 2496	980 229	·335 54
.043	•452 9691 •453 4034	.837 717	.352 3959 .352 0437	.093 .094	.474 6839 .475 1182	.983 210 .986 195	.335 20 .334 87
	0.453 8377	2.843 399		1.095	0.475 5525	2.989 183	
1.045 .046	.454 2720	846 243	351 3403	.095	.475 9868	.992 173	0.334 53 .334 <i>2</i> 0
.047	.454 7063	.849 091	.350 9891	.097	.476 4210	.995 167	.333 87
.048	.455 1406	.851 942	.350 6383	.098	.476 8 <u>5</u> 53	.998 164	333 53
.049	·455 5749	.854 795	.350 2879	.099	.477 2896	3.001 163	.333 20
1.050	0.456 0092	2.857 651	0.349 9377	1.100	0.477 7239	3.004 166	0.332 87
og <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>

					. 11.		
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sub>n</sub>	<b>e−</b> u
1.100	0.477 7239	3.004 166	0.332 8711	1.150	0.499 4387	3.158 193	0.316 6368
.101	.478 1582	.007 172	.332 5384	.151	.499 8729	.161 353	316 3203
.102	.478 5925	.010 180	.332 2060	.152	.500 3072	. 164 516	.316 0041
.103	.479 0268	.013 192	.331 8740	.153	.500 7415	. 167 682	.315 6883
.104	.479 4611	.016 207	.331 5423	.154	.501 1758	.170 851	.315 3728
1.105	0.479 8954	3.019 224	0.331 2109	1.155	0.501 6101	3.174 023	0.315 0575
.106	.480 3297	.022 245	.330 8798	.156	.502 0444	.177 199	.314 7426
.107	.480 7640	.025 269	.330 5491	. 157	.502 4787	.180 378	.314 4281
.108	.481 1983	.028 296	.330 2187 .329 8887	.158	.502 9130	.183 560 .186 745	,314 1138 .313 7998
.109	.481 6326	.031 326	.329 6667	.159	.503 3473	1.0	
1.110	0.482 0669	3.034 358	0.329 5590 .329 2296	1.160 .161	0.503 7816 .504 2159	3.189 933 .193 125	0.313 4862
.111	.482 5012	.037 394	.328 9005	.162	.504 6502	.195 320	.312 8598
.112	.482 9355 .483 3698	.040 433	.328 5718	163	.505 0845	.190 517	.312 5471
.113	.483 8041	.046 520	.328 2434	.164	.505 5188	.202 719	.312 2347
T TTE	0.484 2383	3.049 568	0.327 9153	1.165	0.505 9531	3.205 923	0.311 9227
1.115	.484 6726	.052 619	.327 5875	.166	.506 3874	209 130	.311 6109
.117	.485 1069	.055 673	.327 2601	.167	.506 8217	.212 341	.311 2994
.118	.485 5412	.058 731	.326 9330	.168	.507 2560	.215 555	.310 9883
.119	485 9755	.061 <i>7</i> 91	.326 6062	. 169	.507 6902	.218 772	.310 6775
1.120	0.486 4098	3.064 854	0.326 2798	1.170	0.508 1245	3.221 993	0.310 3669
.121	.486 8441	.067 921	325 9537	171	.508 5588	.225 216	.310 0567
.122	.487 2784	.070 990	.325 6279	.172	.508 9931	.228 443	.309 7468
.123	.487 7127	.074 063	.325 3024	. 173	.509 4274	.231 673	.309 4372
.124	.488 1470	.077 138	.324 9773	.174	.509 8617	.234 906	.309 1280
1.125	0.488 5813	3.080 217	0.324 6525	1.175	0.510 2960 .510 7303	3.238 143 .241 383	0.308 8190
126	.489 0156 .489 4499	.083 299	.324 3280	.176 .177	.510 /303	.241 363	.308 2020
.127	.489 8842	.089 471	.323 6800	.178	.511 5989	.247 872	307 8939
.120	.490 3185	.092 562	.323 3565	.179	.512 0332	.251 121	.307 5862
1.130	0.490 7528	3.095 657	0.323 0333	1.180	0.512 4675	3.254 374	0.307 2787
.131	.491 1871	.098 754	.322 7104	.181	.512 9018	.257 630	.306 9716
.132	.491 6214	.101 854	.322 3878	.182	.513 3361	.260 889	.306 6648
.133	.492 0556	.104 957	.322 0656	. 183	513 7704	.264 152	.306 3583
.134	.492 4899	.108 064	.321 7437	. 184	.514 2047	.267 418	.306 0521
1.135	0.492 9242	3.111 174	0.321 4221	1.185	0.514 6390	3.270 687	0.305 7462
.136	•493 3585	.114 286	.321 1009	.186	.515 0733	273 959	
• 137	.493 7928	.117 402	320 7799	. 187 . 188	.515 5075	.277 235	.305 1353
.138	.494 2271 .494 6614	.120 521 .123 643	.320 4593 .320 1390	.189	.515 9418	.283 796	304 5256
		3.126 768		-	0.516 8104	3.287 081	0.304 2213
1.140	0.495 0957	129 897	0.319 8190	1.190	.517 2447	290 370	
.141	.495 5300 .495 9643	.129 697	.319 1800	.192	.517 6790	.293 662	
.142	1 .496 3986	.136 163	.318 8610	.193	.518 1133	.296 957	.303 3100
.144	.496 8329	.139 300	.318 5423	. 194	.518 5476	.300 256	.303 0068
1.145	0.497 2672	3.142 441	0.318 2239	1.195	0.518 9819	3.303 558	0.302 7040
146	.497 7015	.145 585	.317 9059	,196	.519 4162	.306 863	.302 4014
.147	.498 1358	.148 733	.317 5881	. 197	.519 8505	.310 172	
.148	.498 5701	.151 883	.317 2707 .316 9536	. 198	.520 2848 .520 7191	.313 483 .316 798	
.149							
1.150	0.499 4387	3.158 193	0.316 6368	1.200	0.521 1534	3.320 117	
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-0</sup>

1.201   1.521   1.527   1.525   1.52	, u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>
202	1.200	0.521 1534	3.320 117	0.301 1942	1.250	0.542 8681	3.490 343	0.286 5048
202   .522   .525   .	.201							.286 2184
203   .522   4563   .330   .902   .300   .2020   .253   .544   .540   .550   .830   .285   .564   .544   .565   .504   .332   .285   .564   .544   .565   .504   .332   .285   .564   .285   .285   .285   .226   .532   .285   .564   .285   .285   .226	.202	.522 0220						.285 9324
1.205	.203	.522 4563						.285 6466
2.207   5.24   7594   3.49   0.98   3.99   3025   3.25   5.45   4739   5.511   348   2.284   7004   2.284   5004   5.24   6277   3.46   784   2.298   7043   2.259   5.46   7768   5.21   808   2.284   2.298   2.290   5.25   50620   3.50   133   2.298   4956   2.259   5.46   7768   5.21   808   2.284   2.284   2.298   2.290   5.25   50620   3.50   845   2.297   8092   3.61   5.47   6453   5.28   5.49   2.283   3.70   2.211   5.25   3.049   3.00   198   2.297   8092   3.61   5.47   6453   5.28   5.49   2.233   3.70   2.213   5.26   7092   3.35   5.80   2.297   8092   3.61   5.47   6453   5.28   5.49   2.233   3.70   2.214   5.27   2.333   3.36   5.29   7.0015   3.262   5.48   5.09   5.30   5.51   2.283   5.20   2.214   5.27   2.333   3.360   9.25   2.297   9069   3.264   5.48   5.49   5.55   5.51   2.282   5.21   5.20   5.20   5.20   3.37   506   2.20   7100   3.24   5.48   5.49   5.58   5.20   5.20   5.20   5.20   5.20   5.20   5.20   5.20   5.20   5.21   5.50   5.50   5.20   5.21   5.50   5.50   5.20   5.21   5.50   5.50   5.20   5.21   5.50   5.50   5.20   5.21   5.50   5.50   5.20   5.21   5.50   5.50   5.20	.204							.285 3611
1.200   .524   1934   .343   439   .299   9032   .257   .545   9082   .514   861   .284   500   .298   .294   .298   .294   .298   .294   .295   .246   .275   .546   .275   .518   .288   .283   .233   .298   .295   .259   .546   .275   .518   .288   .283   .233   .298   .295   .259   .546   .275   .518   .288   .283   .283   .233   .298   .295   .259   .261   .547   .6453   .528   .549   .283   .283   .233   .298   .297   .201   .527   .263   .548   .296   .532   .279   .223   .283   .233   .255   .214   .527   .2335   .366   .297   .297   .260   .264   .248   .288   .259   .514   .228   .280   .221   .252   .258   .256   .297   .260   .264   .248   .288   .259   .514   .228   .280   .221   .258   .256   .297   .267   .267   .258   .256   .297   .267   .258   .256   .297   .267   .258   .256   .297   .267   .258   .256   .297   .267   .259   .258   .258   .259   .251   .258   .258   .259   .251   .258		0.523 3249				0.545 0396		0.285 0758
2.09	.206	.523 7591	.340 098		.256			.284 7909
1.210								
1.210	1							
.211	.209	.525 0620	.350 133	.298 4956	.259	.546 7768	521 898	.283 937
.212			3.353 485					0.283 654
.213								
.214								
1.215								
2216   .528 1021   .373 666   .296 4135   .266   .549 8168   .546 638   .281 957   .218   .528 9707   .380 420   .295 8212   .268   .550 6854   .553 738   .281 393   .219   .529 4050   .383 802   .295 5255   .269   .551 1197   .557 293   .281 112   .220   .529 8393   .387 188   0.295 2302   1.270   0.551 5540   3.560 853   .564 415   .226 530 7079   .303 969   .294 6403   .272   .552 4226   .567 981   .280 576   .222   .530 7079   .303 969   .294 6403   .272   .552 4226   .567 981   .280 576   .224   .531 5764   .400 764   .294 0516   .274   .553 2912   .575 124   .227 970   .224   .531 5764   .400 764   .294 0516   .274   .553 2912   .575 124   .227 970   .226   .552 4450   .407 572   .293 4641   .276   .554 1598   .582 282   .279 15   .228   .533 3136   .414 394   .292 8777   .278   .554 5941   .855 866   .278 872   .229   .533 7479   .417 810   .292 5850   .279   .555 4626   .593 045   .228   .231   .534 6165   .424 652   .292 20004   .281   .535 9198   .431 942   .291 170   .283   .555 131   .602 238   .277 558   .231   .535 9880   .441 819   .291 170   .283   .555 6884   .3614 668   .277 284   .235 597 6341   .236   .535 7880   .441 819   .290 5441   .286   .558 5027   .603 840   .277 288   .231   .535 9880   .441 819   .290 5441   .286   .558 5027   .603 840   .277 288   .231   .535 9880   .441 819   .290 5441   .286   .558 5027   .618 284   .276 237   .238   .537 6566   .444 8709   .289 0950   .284   .557 6341   .668   .276 656   .276 927   .286   .236   .536 7880   .441 819   .290 5441   .286   .558 5027   .618 284   .276 237   .238   .537 6566   .444 8709   .289 0950   .288   .559 3713   .625 528   .275 524   .226   .226 20004   .286   .558 5027   .618 284   .276 37   .226   .226 20004   .286   .258 5007   .286 058   .276 507   .286 059 3713   .625 528   .277 555   .226 059   .286 059	.214		.300 925	. 297 0009	.204	.548 9482	•539 551	.282 521
.217			3.370 294					0.282 239
2.18								
1.220			280 420					201 0/5
1.220								.281 112
.221	T 220	0 520 8202	2 287 188	0 205 2202	T 270	0 551 5540	2 560 852	0 280 827
.222								
.223								
.224       .531 5764       .400 764       .294 0516       .274       .553 2912       .575 124       .279 710         1.225       0.532 0107       3.404 166       0.293 7577       11.275       0.553 7255       3.578 701       0.279 43         .226       .532 4450       .407 572       .293 4641       .276       .554 1598       .582 282       .279 15         .227       .532 8793       .410 981       .293 1708       .277       .554 5941       .585 866       .278 87         .228       .533 3136       .414 394       .292 8777       .278       .555 0283       .589 454       .278 531         .229       .533 7479       .417 810       .292 2926       .279       .555 4626       .593 045       .278 31         1.230       .534 6165       .424 652       .292 0004       .281       .556 3312       .600 238       .277 75         .232       .535 0508       .428 079       .291 7086       .282       .555 7655       .603 840       .277 75         .233       .535 4851       .431 509       .291 4170       .283       .557 1998       .607 446       .277 20         .234       .536 3537       3.438 379       .0290 8348       1.285       .558 5084       3.614 668								
.226       .532       4450       .407       572       .293       4641       .276       .554       1598       .582       .282       .279       15         .227       .532       8793       .410       981       .292       8777       .554       5941       .585       866       .278       875         .228       .533       3136       .414       394       .292       8777       .278       .555       50283       .589       454       .278       592         .229       .533       7479       .417       810       .292       8580       .279       .555       4626       .593       045       .278       873         .231       .534       6165       .424       .652       .292       0004       .281       .556       3312       .600       238       .277       753         .232       .535       5058       .428       .799       .291       4170       .283       .557       1998       .600       238       .277       753         .232       .535       5058       .441       819       .290       5441       .286       .558       5624       .607       446       .277 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>.279 710</td></t<>								.279 710
.226       .532       4450       .407       572       .293       4641       .276       .554       1598       .582       .282       .279       15         .227       .532       8793       .410       981       .292       8777       .278       .554       5941       .585       866       .278       875         .228       .533       3136       .414       394       .292       8850       .279       .555       50283       .589       454       .278       592         .229       .533       7479       .417       810       .292       8550       .279       .555       4626       .593       045       .278       873         .231       .534       6165       .424       .652       .292       0004       .281       .555       8321       .600       238       .277       753         .232       .535       .5058       .428       .79       .555       8969       3.596       640       0.278       03         .232       .535       .5058       .4850       .99       .291       4170       .283       .557       1998       .607       446       .277       20 <t< td=""><td>1.225</td><td>0.532 0107</td><td>3.404 166</td><td>0.293 7577</td><td>1.275</td><td>0.553 7255</td><td>3.578 701</td><td>0.279 431</td></t<>	1.225	0.532 0107	3.404 166	0.293 7577	1.275	0.553 7255	3.578 701	0.279 431
.227       .532 8793       .410 981       .293 1708       .277       .554 5941       .585 866       .278 872         .228       .533 3136       .414 394       .292 8777       .278       .555 0283       .589 454       .278 593         .229       .533 7479       .417 810       .292 5850       .279       .555 4626       .593 045       .278 313         1.230       0.534 1822       3.421 230       0.292 2926       1.280       0.555 8969       3.596 640       0.278 033         .231       .534 6165       .424 652       .292 0004       .281       .556 7655       .603 840       .277 783         .232       .535 0508       .428 079       .291 7086       .282       .556 7655       .603 840       .277 483         .233       .535 4851       .431 509       .291 4170       .283       .557 6341       .611 055       .276 92         1.235       0.536 3537       3.438 379       0.290 8348       1.285       0.558 0684       3.614 668       0.276 656         .237       .537 2223       .445 262       .290 2537       .287       .558 9370       .621 905       .276 92         .238       .537 6566       .448 709       .289 9636       .288       .559 3713       .625 528	.226	.532 4450	.407 572	.293 4641				.279 151
.228       .533       3136       .414       394       .292       8777       .278       .555       0283       .589       454       .278       592         .229       .533       7479       .417       810       .292       5850       .279       .555       4626       .593       045       .278       315         1.230       0.534       1822       3.421       230       0.292       2926       1.280       0.555       8969       3.596       640       0.278       033         .231       .534       6165       .424       652       .292       0004       .281       .556       3312       .600       238       .277       736         .232       .535       0508       .428       079       .291       7086       .282       .556       7655       .603       840       .277       736         .233       .535       9194       .434       942       .291       1257       .284       .557       6341       .611       055       .276       922         1.235       0.536       3537       3.438       379       0.290       8348       1.285       0.558       0684       3.614       668 </td <td>.227</td> <td>.532 8793</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.278 872</td>	.227	.532 8793						.278 872
1.230       0.534       1822       3.421       230       0.292       2926       1.280       0.555       8969       3.596       640       0.278       033         231       .534       6165       .424       652       .292       0004       .281       .556       3312       .600       238       .277       785         .232       .535       0508       .428       079       .291       7086       .282       .556       7655       .603       840       .277       483         .233       .535       4851       .431       509       .291       4170       .283       .557       1098       .607       446       .277       200         .234       .535       9194       .434       942       .291       1257       .284       .557       6341       .611       055       .276       922         1.235       0.536       3537       3.438       379       0.290       8348       1.285       0.558       5027       .618       284       .276       37         .237       .537       2223       .445       262       .290       2537       .287       .558       5027       .618       284	.228		.414 394		.278	.555 0283	.589 454	.278 593
.23i       .534       6165       .424       652       .292       0004       .281       .556       3312       .600       238       .277       755         .232       .535       0508       .428       079       .291       7086       .282       .557       7055       .603       840       .277       755         .233       .535       4851       .431       509       .291       4170       .283       .557       1998       .607       446       .277       202         .234       .535       9194       .434       942       .291       1257       .284       .557       6341       .611       055       .276       927         1.235       0.536       3537       3.438       379       0.290       8348       1.285       0.558       8084       3.614       .668       0.276       656         .236       .537       2223       .445       262       .290       2537       .287       .558       9370       .621       905       .276       907         .238       .537       656       .448       709       .289       9636       .288       .559       3713       .625       528	.229	·533 7479	417 810	.292 5850	.279	.555 4626	.593 045	.278 315
.232       .535 0508       .428 079       .291 7086       .282       .556 7655       .603 840       .277 48:         .233       .535 4851       .431 509       .291 4170       .283       .557 1998       .607 446       .277 20:         .234       .535 9194       .434 942       .291 1257       .284       .557 6341       .611 055       .276 92:         1.235       0.536 3537       3.438 379       0.290 8348       1.285       0.558 0684       3.614 668       0.276 656         .236       .537 2223       .445 262       .290 5441       .286       .558 5027       .618 284       .276 37.         .237       .537 2223       .445 262       .290 2537       .287       .558 3773       .621 905       .276 37.         .238       .537 6566       .448 709       .289 9636       .288 .559 3713       .625 528       .275 82.         .239       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 99.         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 99.         .242       .539 3037       .462 532       .288 8060       292       .561 1085       .640 059       .271 7	1.230	0.534 1822						0.278 037
.233       .535 4851       .431 509       .291 4170       .283       .557 1998       .607 446       .277 202         .234       .535 9194       .434 942       .291 1257       .284       .557 6341       .611 055       .276 92         1.235       0.536 3537       3.438 379       0.290 8348       1.285       0.558 0684       3.614 668       0.276 650         .236       .536 7880       .441 819       .290 5441       .286       .558 5027       .618 284       .276 37         .237       .537 2223       .445 262       .290 2537       .287       .558 9370       .621 905       .276 93         .238       .537 6566       .448 709       .289 9636       .288       .559 3713       .625 528       .275 82         .239       .538 9909       .452 160       .289 6737       .289       .559 8056       .629 156       .275 546         1.240       0.538 5252       3.455 613       0.289 3842       1.290       0.560 2399       3.632 787       0.275 27         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 993         .242       .539 3937       .462 532       .288 8060       .292       .561 1085       .640 059 <td>.231</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.277 759</td>	.231							.277 759
.234       .535 9194       .434 942       .291 1257       .284       .557 6341       .611 055       .276 92         1.235       0.536 3537       3.438 379       0.290 8348       1.285       0.558 0684       3.614 668       0.276 656         .236       .536 7880       .441 819       .290 5441       .286       .558 5027       .618 284       .276 37         .237       .537 2223       .445 262       .290 2537       .287 .558 9370       .621 905       .276 09         .238       .537 6566       .448 709       .289 9636       .288       .559 3713       .625 528       .275 82         .239       .538 9909       .452 160       .289 6737       .289       .559 8056       .629 156       .275 546         1.240       0.538 5252       3.455 613       0.289 3842       1.290       0.560 2399       3.632 787       0.275 27         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 993         .242       .539 3937       .462 532       .288 8060       292       .561 1085       .640 059       .271 720         .243       .530 8280       .465 996       .288 5174       293       .561 5428       .643 701       .274		.535 0508						
1.235       0.536       3537       3.438       379       0.290       8348       1.285       0.558       0.684       3.614       668       0.276       656         .236       .536       7880       .441       819       .290       5441       .286       .558       5027       .618       284       .276       37         .237       .537       2223       .445       262       .290       2537       .287       .558       9370       .621       905       .276       907         .238       .537       656       .448       709       .289       9636       .288       .559       3713       .625       528       .275       82         .239       .538       9090       .452       160       .289       6737       .289       .559       8056       .629       156       .275       546         1.240       0.538       5252       3.455       613       0.289       3842       1.290       0.560       2399       3.632       787       0.275       240         .241       .539       3937       .462       532       .288       8060       292       .561       1085       .640       059 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
.236       .536 7880       .441 819       .290 5441       .286       .558 5027       .618 284       .276 372         .237       .537 2223       .445 262       .290 2537       .287       .558 9370       .621 905       .276 097         .238       .537 6566       .448 709       .289 9636       .288       .559 3713       .625 528       .275 82         .239       .538 0909       .452 160       .289 6737       .289       .559 8056       .629 156       .275 546         1.240       0.538 5252       3.455 613       0.289 3842       1.290       0.560 2399       3.632 787       0.275 276         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 993         .242       .539 3037       .462 532       .288 8060       292       .561 1085       .640 059       .271 72         .243       .539 8280       .465 996       .288 5174       293       .561 5428       .643 701       .274 446         .244       .540 2623       .469 464       .288 2290       .294       .561 9771       .647 347       .274 17         1.245       0.540 6966       3.472 935       0.287 9409       1.295       .562 8456       .654 649	.234	•535 9194	•434 942	.291 1257	.284		.011 055	.270 927
.237       .537       2223       .445       262       .290       2537       .287       .558       9370       .621       905       .276       907         .238       .537       6566       .448       709       .289       9636       .288       .559       3713       .625       528       .275       82         .239       .538       0909       .452       160       .289       6737       .289       .559       8056       .629       156       .275       546         1.240       0.538       5252       3.455       613       0.289       3842       1.290       0.560       2399       3.632       787       0.275       276         .241       .538       9595       .459       071       .289       0950       .291       .560       6742       .636       421       .274       993         .242       .539       3937       .462       532       .288       8060       292       .561       1085       .640       059       .274       726         .243       .539       8280       .465       996       .288       5174       293       .561       5428       .643       701			3.438 379					0.276 650
.238       .537 6566       .448 709       .289 9636       .289 6737       .289       .559 3713       .625 528       .275 82         .239       .538 0909       .452 160       .289 6737       .289       .559 8056       .629 156       .275 546         1.240       0.538 5252       3.455 613       0.289 3842       1.290       0.560 2399       3.632 787       0.275 276         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 993         .242       .539 3937       .462 532       .288 8060       292       .561 1085       .640 059       .271 726         .243       .539 8280       .465 996       .288 5174       293       .561 5428       .643 701       .274 444         .244       .540 2623       .469 464       .288 2290       .294       .561 9771       .647 347       .274 173         1.245       0.540 6966       3.472 935       0.287 9409       1.295       0.562 4114       3.650 996       0.273 803         .246       .541 1309       .476 409       .287 6531       .296       .562 8456       .654 649       .273 622         .247       .541 5652       .479 888       .287 3656       .297       .563 2799								
.239       .538 0909       .452 160       .289 6737       .289       .559 8056       .629 156       .275 546         1.240       0.538 5252       3.455 613       0.289 3842       1.290       0.560 2399       3.632 787       0.275 270         .241       .538 9595       .459 071       .289 0950       .291       .560 6742       .636 421       .274 991         .242       .539 3937       .462 532       .288 8060       292       .561 1085       .640 059       .274 720         .243       .539 8280       .465 996       .288 5174       293       .561 5428       .643 701       .274 440         .244       .540 2623       .469 464       .288 2290       .294       .561 9771       .647 347       .274 17         1.245       0.540 6066       3.472 935       0.287 9409       1.295       0.562 4114       3.650 996       0.273 80         .246       .541 1309       .476 409       .287 6531       .296       .562 8456       .654 649       .273 62         .247       .541 5652       .479 888       .287 3656       .297       .563 2799       .658 305       .273 350         .248       .541 9995       .483 369       .287 0784       .298       .564 1485       .661 965 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>								
.241       .538       9595       .459       071       .289       0950       .291       .560       6742       .636       421       .274       995         .242       .539       3037       .462       532       .288       8060       292       .561       1085       .640       059       .274       726         .243       .539       8280       .465       996       .288       5174       293       .561       5428       .643       701       .274       446         .244       .540       2623       .469       464       .288       2290       .294       .561       9771       .647       347       .274       171         1.245       0.540       6966       3.472       935       0.287       9409       1.295       0.562       4114       3.650       996       0.273       897         .246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305								.275 546
.241       .538       9595       .459       071       .289       0950       .291       .560       6742       .636       421       .274       995         .242       .539       3037       .462       532       .288       8060       292       .561       1085       .640       059       .274       726         .243       .539       8280       .465       996       .288       5174       293       .561       5428       .643       701       .274       446         .244       .540       2623       .469       464       .288       2290       .294       .561       9771       .647       347       .274       171         1.245       0.540       6966       3.472       935       0.287       9409       1.295       0.562       4114       3.650       996       0.273       897         .246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305	T 240	0 528 5252	2 155 613	0.280.3842	T. 200	0.560.2300	2.632.787	0.275.270
.242       .539       3937       .462       532       .288       8060       292       .561       1085       .640       059       .274       720         .243       .539       8280       .465       996       .288       5174       293       .561       5428       .643       701       .274       444         .244       .540       2623       .469       464       .288       2290       .294       .561       971       .647       347       .274       17         1.245       0.540       6966       3.472       935       0.287       9409       1.295       0.562       4114       3.650       996       0.273       897         .246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305       .273       357         .248       .541       995       .483       369       .287       0784       .298       .563       7142       .661       965 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>.636 421</td><td></td></t<>							.636 421	
.243       .539       8280       .465       996       .288       5174       293       .561       5428       .643       701       .274       444         .244       .540       2623       .469       464       .288       2290       .294       .561       9771       .647       347       .274       173         1.245       0.540       6966       3.472       935       0.287       9409       1.295       0.562       4114       3.650       996       0.273       893         .246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305       .273       350         .248       .541       9995       .483       369       .287       0784       .298       .563       7142       .661       965       .273       077         .249       .542       4338       .486       854       .286       7914       .299       .564       1485       .665       629								
1.244       .540       2623       .469       464       .288       2290       .294       .561       9771       .647       347       .274       17         1.245       0.540       6966       3.472       935       0.287       9409       1.295       0.562       4114       3.650       996       0.273       897         .246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .478       888       .287       3656       .297       .563       2799       .658       305       .273       356         .248       .541       9995       .483       369       .287       0784       .298       .563       7142       .661       965       .273       077         .249       .542       4338       .486       854       .286       7914       .299       .564       1485       .665       629       .272       802		.539 8280						.274 446
.246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305       .273       356         .248       .541       9995       .483       369       .287       0784       .298       .563       7142       .661       965       .273       073         .249       .542       4338       .486       854       .286       7914       .299       .564       1485       .665       629       .272       80								.274 171
.246       .541       1309       .476       409       .287       6531       .296       .562       8456       .654       649       .273       622         .247       .541       5652       .479       888       .287       3656       .297       .563       2799       .658       305       .273       356         .248       .541       9995       .483       369       .287       0784       .298       .563       7142       .661       965       .273       073         .249       .542       4338       .486       854       .286       7914       .299       .564       1485       .665       629       .272       802	1.245	0.540 6966	3.472 935	0.287 9409	1.295	0.562 4114	3.650 996	0.273 807
.247     .541     5652     .479     888     .287     3656     .297     .563     2799     .658     305     .273     350       .248     .541     9995     .483     369     .287     0784     .298     .563     7142     .661     965     .273     077       .249     .542     4338     .486     854     .286     7914     .299     .564     1485     .665     629     .272     80.			.476 409		<b>.29</b> 6	.562 8456	.654 649	.273 624
.249 .542 4338 486 854 .286 7914 .299 .564 1485 .665 629 .272 80.	.247	.541 5652	.479 888		.297		.658 305	.273 350
	.248		.483 369					.273 077
1.250 0.542 8681 3.490 343 0.286 5048 1.300 0.564 5828 3.669 297 0.272 53	.249	542 4338	.480 854	.280 7914	.299	504 1485	.005 029	.272 804
	1.250	0.542 8681	3.490 343	0.286 5048	1.300	0.564 5828	3.669 297	0.272 531

The Exponential.

u .	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е-ч	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
1.300	0.564 5828	3.669 297	0.272 5318	1.350	0.586 2976	2 857 426	0.259 2403
.301	.565 0171	.672 068	.272 2594	•35I	.586 7318	3.857 426 .861 285	.258 9811
.302	565 4514	.676 643	.271 9873	.352	.587 1661	.865 148	.258 7223
.303	.565 8857	.680 321	.271 7154	•353	.587 6004	.869 015	.258 4637
.304	.566 3200	.684 003	.271 4438	•354	588 0347	.872 886	.258 2054
1.305	0.566 7543	3.687 689	0.271 1725	1.355	0.588 4690	3.876 761	0.257 9473
.305	.567 1886	.691 379	.270 9015	.356	.588 9033	.880 640	.257 6895
.307	.567 6229 .568 0572	.695 072	.270 6307	·357 ·358	.589 3376 .589 7719	.884 522 .888 409	.257 4319 .257 1746
.309	.568 4915	.702 469	.270 0900	.359	.590 2062	.892 299	.256 9176
1.310	0.568 9258	3.706 174	0.269 8201	1.360	0.590 6405	3.896 193	0.256 6608
.311	.569 3601	.709 882	.269 5504	.361	.591 0748	.900 091	.256 4042
.312	.569 7944	.713 593	.269 2810	.362	.591 5091	.903 993	.256 1480
.313	.570 2287	.717 309	.269 0118	.363	•591 9434	.907 899	.255 8919
•314	.570 6629	.721 028	.268 7429	.364	592 3777	.911 809	.255 6362
1.315 .316	0.571 0972 .571 5315	3.724 751 .728 478	0.268 4743	1.365 .366	0.592 8120	3.915 723 .919 641	0.255 3807
.317	.571 9658	.732 208	.267 9379	.367	593 6806	.923 562	.255 1254
.318	.572 4001	.735 942	.267 6701	.368	.594 1149	.927 488	.254 6157
.319	.572 8344	.739 680	.267 4026	.369	•594 5491	.931 417	.254 3612
1.320	0.573 2687	3.743 421	0.267 1353	1.370	0.594 9834	3.935 351	0.254 1070
.321	.573 7030	.747 167	.266 8683	·371	•595 4177	.939 288	.253 8530
.322	•574 1373	.750 916	.266 6016	372	.595 8520	.943 229	.253 5993
.323 .324	.574 5716 .575 0059	.754 669 .758 425	.266 3351 .266 0689	·373 ·374	.596 2863 .596 7206	.947 174 .951 124	.253 3458 .253 0926
1.325	0.575 4402	3.762 185	0.265 8030	1.375	0.597 1549	3.955 077	0.252 8396
.326	.575 8745	.765 949	.265 5373	.376	597 5892	959 034	.252 5869
.327	.576 3088	.769 717	.265 2719 .265 0067	-377	.598 0235	.962 995	.252 3344
.328	.576 7431	.773 489		.378	.598 4578	.966 960	.252 0822
.329	577 1774	.777 264	.264 7419	•379	.598 8921	.970 929	.251 8303
1.330	0.577 6117 .578 0460	3.781 043 .784 826	0.264 4773	1.380	0.599 3264	3.974 902 .978 879	0.251 5786
.331	.578 4802	.788 613	.263 9488	.381 .382	.599 7607 .600 1950	.982 859	.251 3271 .251 0759
•333	.578 9145	792 404		.383	600 6293	.986 844	.250 8249
.334	.579 3488	.795 198	.263 4215	384	.601 0636	.990 833	.250 5742
1.335	0.579 7831	<b>3.7</b> 99 996	0.263 1582	1.385	0.601 4979	3.994 826	0.250 3238
.336	.580 2174	.803 798	.262 8951	.386	.601 9322	.998 823	.250 0736
•337	580 6517	.807 604	.262 6324	.387	.602 3664	4.002 824	.249 8237
.338 -339	.581 0860 .581 5203	.811 413 .815 226	.262 3699 .262 1076	.388	602 8007	.006 828	.249 5740
	38	and the second of the second	Later de Colonia				.249 3245
1.340 .341	0.581 9546 .582 3889	3.819 044 .822 864	0.261 8457 .261 5840	1.390 .391	0.603 6693	4.014 850 .018 867	0.249 0753
.342	.582 8232		.261 3225	.391	.604 5379	.022 888	.248 8264
343	.583 2575	.830 518	.261 0613	393	.604 9722	.026 913	.248 3292
•344	.583 6918	.834 350*	.260 8004	•394	.605 4065	.030 942	.248 0810
1.345	0.584 1261	3.838 187	0.260 5397	1.395	0.605 8408	4.034 975	0.247 8330
.346	.584 5604	.842 027	260 2793	.396	.606 2751	.039 012	.247 5853
• 347 • <b>3</b> 48	.584 9947 .585 4290	.845 871 .849 718	.260 0191 .259 7593	•397	.606 7094	.043 053	.247 3379
349	.585 8633	.853 570	.259 4996	.398	.607 1437 .607 5780	.047 098	.247 0907
1.350	<b>0.</b> 586 2976	3.857 426*	0.259 2403	1.400	0.608 0123	4.055 200	0.246 5970
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
	1	1	1		=10(0)	mala di la la la la la la la la la la la la la	y

			The Exp	onential.			
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е-ч	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
1.400	0.608 0123	4.055 200	0.246 5970	1.450	0.629 7270	4.263 115	0.234 5703
401	.608 4466	.059 257	.246 3505	.451	.630 1613	.267 380	234 3358
.402	.608 8809	.063 318	.246 1043	.452	.630 5956	.271 649	.234 1016
.403 .404	.609 3152 .609 7495	.067 384 .071 453	.245 8583 .245 6125	·453 ·454	.631 0299 .631 4642	.275 923 .280 201	.233 8676 .233 6339
1.405	0.610 1837	4.075 527	0.245 3671	1.455	0.631 8985	4.284 483	0.233 4004
.406	.610 6180	.079 604	.245 1218	.456	.632 3328	.288 770	.233 1671
.407	.611 0523 .611 4866	.083 686	.244 8768 .244 6321	•457	.632 7671	.293 061	232 9340
.408 .409	.611 4800	.087 772 .091 861	.244 0321	.458 .459	.633 2014 .633 6356	.297 356 .301 656	.232 7012
1,410	0.612 3552	4.095 955	0.244 1433	1.460	0.634 0699	4.305 960	0.232 2363
.411	.612 7895	.100 053	.243 8993	.461	.634 5042	.310 268	.232 0042
.412	.613 <i>22</i> 38 .613 6581	.104 156 .108 262	.243 6555 .243 4120	.462	.634 9385	.314 580	.231 7723
.414	.613 0561 .614 <b>0</b> 924	.112 372	.243 1687	.463 .464	.635 3728 .635 8071	.318 897	.231 5406 .231 3092
1.415	0.614 5267	4.116 486	0.242 9256	1.465	0.636 2414	4.327 543	0.231 0780
.416	.614 961 <b>0</b>	.120 605	.242 6828	.466	.636 6757	.331 873	.230 8470
.417	.615 3953	.124 728	.242 4402 .242 1979	.467	637 1100	.336 207	.230 6163
.418 .419	.615 8296 .616 2639	.132 985	.241 9559	.468 .469	.637 5443 .637 9786	.340 545 .344 888	.230 3858
1.420	0.616 6982	4.137 120	0.241 7140	1.470	0.638 4129	4.349 235	0.229 925
.421	.617 1325	.141 260	.241 4724	.471	.638 8472	·353 587	.229 6957
.422	.617 5668 .618 0010	.145 403	.24I 23II .240 9900	.472 .473	.639 2815	.357 942	.229 4661
.424	.618 4353	.153 702	.240 749I	.473	.640 1501	.366 667	.229 2367
1.425	0.618 8696	4.157 858	0.240 5085	1.475	0.640 5844	4.371 036	0.228 7787
.426	.619 3039	.162 018	.240 2681	.476	.641 0187	•375 409	.228 550
.427 .428	.619 7382 .620 1725	.166 182 .170 350	.240 0279 .239 7880	·477 ·478	.641 4529	.379 787 .384 169	.228 3216
.429	.620 6068	.174 523	.239 5484	.479	.642 3215	388 555	.227 8654
1.430	0.621 0411	0,178 699	0.239 3089	1.480	0.642 7558	4.392 946	0.227 6377
.431	.621 4754	.182 880	.239 <b>0</b> 697	.481	.643 1901	•397 341	.227 4102
.432	.621 9097 .622 3440	.187 065 .191 254	.238 8308 .238 5921	.482 .483	.643 6244	.401 740 .405 144	.227 1820
·433 ·434	.622 7783	195 447	.238 3536	.484	.644 4930	.410 553	.226 9558 .226 7290
1.435	0.623 2126	4.199 645	0.238 1154	1.485	0.644 9273	4.414 965	0.226 5023
.436	.623 6469	.203 847	.237 8774	.486 .487	.645 3616	.419 383	.226 2760
·437 ·438	.624 0812 .624 5155	.208 053	.237 6396 .237 4021	.488	.645 7959 .646 2302	.423 804	.226 0498
439	.624 9498	.216 477	.237 1648	.489	.646 6645	.432 661	
1.440	0.625 3841	4.220 696	0.236 9278	1.490	0.647 0988	4.437 096	0.225 3727
.44I .442	.625 8183 .626 2526	.224 919 .229 146	.236 6909 .236 4544	.491 .492	.647 5331 .647 9674	.44I 535 .445 979	.225 1474
.442	626 6869	.233 377	.236 2180	•493	.648 4017	.450 427	.224 6976
444	.627 1212	.237 612	.235 9819	•494	.648 8360	.454 879	.224 4730
1.445	0.627 5555 .627 9898	4.241 852	0.235 7461	1.495	0.649 2703	4.459 337	0.224 2486
.446 •447	.628 4241	.246 096 .250 344	.235 5104 .235 2751	. 496 . 497	.649 7045 .650 1388	.463 798 .468 254	.224 0245
.448	.628 8584	.254 597	.235 0399	.498	.650 5731	.472 735	.223 5769
-449	.629 2927	.258 854	.234 8050	•499	.651 0074	.477 210	.223 3534
1.450	0.629 7270	4.263 115	0.234 5703	1.500	0.651 4417	4.481 689	0.223 1302
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	eŭ	e e

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	<b>e</b> −u	u	log <sub>10</sub> (e <sup>u</sup> )	ed	e <sup>-u</sup>
T FOO	0.651 4417	4 49 7 600	D 000 T000	7 770	0 600 7564		0 010 0100
1.500	.651 8760	4.481 689 .486 173	0.223 I302 .222 907I	1.550	0.673 1564	4.711 470 .716 184	
.502	.652 3103	.490 661	.222 6843	•551 •552	.673 5907	720 903	
.503	.652 7446	·495 154	.222 4618	.553	.674 4593	.725 626	
.504	.653 1789	.499 652	.222 2394	554	.674 8936	.730 354	
1.505	0.653 6132	4.504 154	0.222 0173	1.555	0.675 3279	4.735 087	0.211 1894
.506	.654 0475	.508 660	.22I <b>7</b> 954	.556	.675 7622	.739 824	.210 9783
507	.654 4818	.513 171	.221 5737	· 557	.676 1965	• <b>7</b> 44 566	
.508	.654 9161 .655 3504	.517 686 .522 206	.22I 3522 .22I 1310	.558 .559	676 6308	.749 313 .754 065	
	o.655 7847	4.526 731		1.560	<b>o</b> .677 4994	4.758 821	
1.510	.656 2190	.531 260	0.220 9100 .220 6892	.561	.677 9337	.763 582	
.512	.656 6533	·535 793	.220 4686	.562	.678 3680	.768 348	.209 7162
513	657 0876	.540 331	.220 2482	.563	.678 8023	.773 119	.209 5066
.514	.657 5218	544 874	.220 0281	.564	.679 2366	.777 895	.209 2972
1.515	0.657 9561	4.549 421	0.219 8082	1.565	0.679 6709	4.782 675	0.200 0880
.516	.658 3904	•553 973	.219 5885	. 566	.680 1052	.787 460	.208 8790
-517	.658 8247	.558 529	.219 3690	•567	.680 5395	.792 250	
.518	.659 2590	.563 090	.219 1497	. 568	.680 9737	•797 045	
.519	.659 6933	.567 655	.218 9307	. 569	.681 4080	.801 844	.208 2533
1.520	0.660 1276	4.572 225	0.218 7119	1.570	0.681 8423	4.806 648	0.208 0452
.521	.660 5619	.576 800	.218 4933	.571	.682 2766	.811 457	.207 8372
.522	.660 9962	.581 379	.218 2749	.572	.682 7109	.816 271	.207 6295
•523	.661 4305	.585 962	.218 0567	•573	.683 1452	.821 090	.207 4220
•524	.661 8648	.590 551	.217 8388	•574	.683 5795	.825 913	.207 2147
1.525	0.662 2991	4.595 144	0.217 6211	1.575	0.684 0138	4.830 742	
.526	.662 7334	.599 <i>7</i> 41	.217 4035	.576	.684 4481	·835 575	206 8006
.527	.663 1677	604 343	.217 1862	- 577	.684 8824	.840 413	206 5940
.528	.663 6020	.608 950	.216 9692	.578	.685 3167	.845 256	
.529	.664 <b>03</b> 63	.613 561	.216 7523	•579	.685 7510	.850 103	
1.530	0.664 4706	4.618 177	0.216 5357	1.580	0.686 1853	4.854 956	0.205 9751
.531	.664 9049	.622 797	.216 3192	.581	.686 6196	.859 813	
.532	.665 3391	.627 422	.216 1030	.582	.687 0539	.864 675	.205 5636
•533	.665 7734	.632 052	.215 8870	• 583	.687 4882	.869 543	.205 3581
•534	.666 2077	.636 687	.215 6713	.584	.687 9225	.874 415	.205 1528
1.535	0.666 6420	4.641 326	0.215 4557	1.585	0.688 3568	4.879 291	0.204 9478
.536	.667 0763	.645 969	.215 2403	. 586	.688 7910	.884 173	.204 7429
•537	.667 5106	.650 617	.215 0252	.587	.689 2253	.889 060	
.538	667 9449	.655 270	.214 8103	-588	.689 6596	893 951	.204 3339
•539	.668 3792	.659 928	.214 5956	.589	.690 0939	.898 848	
1.540	0.668 8135	4.664 590	0.214 3811	1.590	0.690 5282	4.903 749	0.203 9256
.541	.669 2478	.669 257	.214 1668	.591	.690 9625	908 655	
.542	.669 6821	.673 929	.213 9528	. 592	.691 3968	.913 566	
•543	.670 1164	.678 605	.213 7389	593	.691 8311	.918 482	
•544	.670 5507	.683 286	.213 5253	•594	.692 2654	.923 403	.203 1115
1.545	0.670 9850	4.687 972	0.213 3119	1.595	0.692 6997	4.928 329	0.202 9085
.546	.671 4193	.692 662	.213 0987	.596	.693 1340	933 260	.202 7057
.547.	.671 8536	.697 357	.212 8857	• 597	.693 5683	.938 196	
.548 .549	.672 2879	702 057 706 761	.212 6729	. 598 • 599	694 0026	.943 136	
1.550	0.673 1564	4.711 470	0.212 2480	1,600	0.694 8712	4.953 034	
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>tt</sup>	e <sup>-u</sup>
	1		<u> </u>		1 200.7	]	A Property of Parkets

u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
1.600	0.694 8712	4.953 032	0.201 8965	1.650	0.716 5850	5.206 980	0.192
.601	.695 3055	957 988	.201 6947	.651	.717 0202	.212 180	.191 8
.602	.695 7398	.962 948	.201 4931	.652	.717 4545	.217 404	.191 6
,603	696 1741	.967 914	.201 2917	.653	.717 8888	.222 624	.191 4
.604	.696 6083	972 884	.201 0905	.654	.718 3231	.227 849	.191 2
1.605	0.697 0426	4.977 860	0.200 8896	1.655	0.718 7574	5.233 080	0.191 0
.606	.697 4769	982 840	.200 6888	.656	.719 1917	.238 316	.190 9
607	.697 9112	987 825	.200 4882	.657	.719 6260	•243 557	.190 7
.608 .609	.698 3455 .698 7798	.992 816	.200 2878 .200 0876	.658 .659	.720 0603 .720 4945	.248 803	.190 5
1.610	0.699 2141	5.002 811	o. 199 8876	1.660	0.720 9288	5.259 311	0.190 1
.611	.699 6484	.007 817	.199 6878	.661	.721 3631	.264 573	.189 9
.612	.700 0827	.012 827	.199 4882	.662	.721 7974	.269 840	.189 7
.613	.700 5170	.017 842	199 2888	.663	.722 2317	.275 112	.189
.614	.700 9513	.022 863	199 0897	.664	.722 6660	.280 390	.189
1.615	0.701 3856	5.027 888	0.198 8907	1.665	0.723 1003	5.285 673	0.189
.616	.701 8199	.032 918	.198 6919	.666	.723 5346	.290 962	. 189 (
.617	.702 2542	.037 954	.198 4933	.667	.723 9689	.296 255	. 188 8
.618	702 6885	.042 994	.198 2949	.668	.724 4032	.301 554	.188 6
.619	703 1228	.048 040	.198 0967	.669	.724 8375	306 858	.188 4
1.620 .621	0.703 5571 .703 9914	5.053 090	0.197 8987	1.670 .671	0.725 2718	5.312 168	0.188 2
.622	.703 9914	.053 207	.197 7009	.672	.725 7061 .726 1404	.317 403	.187 8
.623	.704 8599	.068 272	.197 3033	.673	.726 5747	.328 128	.187 6
.624	.705 2942	.073 343	.197 1087	674	.727 0090	333 459	.187
1.625	0.705 7285	5.078 419	0.196 9117	1.675	0.727 4433	5.338 795	0.187
.626	706 1628	.083 500	.196 7149	676	.727 8776	•344 137	.187
.627	.706 5971	.088 586	.196 5182	.677	.728 3118	.349 483	.186 9
.628	.707 0314	.093 677	.196 3218	.678	.728 7461	.354 836	. 186 2
.629	.707 4657	.098 773	.196 1256	.679	.729 1804	.360 193	.186
1.630 .631	0.707 9000	5.103 875 .108 981	0.195 9296	1.680 .681	0.729 6147	5.365 556	0.186 .186
.632	.708 3343 .708 7686	.114 093	.195 7337	.682	.730 0490 .730 4833	.370 924 .376 298	186
.633	709 2029	.119 209	.195 3427	.683	.730 9176	381 677	185
.634	.709 6372	.124 331	.195 1474	.684	.731 3519	.387 061	185
1.635	0.710 0715	5.129 458	0.194 9524	1.685	0.731 7862	5.392 451	0.185
.636	.710 5058	.134 590	194 7575	.686	.732 2205	.397 846	. 185
.637	.710 9401	.139 727	.194 5629	.687	.732 6548	.403 247	. 185
.638	711 3744	.144 869	.194 3684	.688	.733 0891	.408 653	.184 8
.639	.711 8087	.150 017	.194 1741	.689	•733 5234	414 064	.184 ;
1.640 .641	0.712 2430	5.155 170 .160 327	<b>0.</b> 193 9800 . 193 7862	1.690 .691	0.733 9577 .734 3920	5.419 481 •424 903	0.184 .184
.642	.713 1115	.165 490	.193 5925	.692	.734 8263	.424 903 .430 33I	184
.643	.713 5458	.170 658	.193 3923	.693	735 2606	.435 764	.183
.644	.713 9801	.175 831	.193 2057	.694	.735 6949	.441 202	.183
1.645	0.714 4144	5.181 010	0.193 0126	1.695	0.736 1291	5.446 646	0.183
.646	.714 8487	.186 194	.192 8196	.696	.736 5634	.452 095	. 183 4
.647	.715 2830	.191 382	.192 6269	.697	.736 9977	.457 550	. 183 2
.648	.715 7173	.196 576	.192 4344	.698	.737 4320	.463 010	.183
.649	.716 1516	.201 775	.192 2421	699	737 8663	.468 476	.182 8
1.650	0.716 5859	5.206 980	0.192 0499	1.700	0.738 3006	5.473 947	0.182

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>tt</sup>	е-ч	u	log <sub>10</sub> (e <sup>u</sup> )	au u	e e
1.700	0.738 3006	5.473 947	0.182 6835	1.750	0.760 0153	5.754 603	0.173 7739
.701	.738 7349	.479 424	.182 5009	.751	.760 4496	.760 360	.173 6003
.702	.739 1692	.484 906	.182 3185	.752	.760 8839	.766 123	.173 4267
.703	.739 6035	.490 394	.182 1363	.753	.761 3182	.771 892	.173 2534
.704	.740 0378	.495 887	.181 9542	.754	.761 7525	.777 667	.173 0802
1.705	0.740 4721	5.501 386	0.181 7724	1.755	0.762 1868	5.783 448	0.172 9072
.706	.740 9064	.50\(\frac{4}{2}\) 890	.181 5907	.756	.762 6211	.789 234	.172 7344
.707	.741 3407	.512 399	.181 4092	.757	.763 0554	.795 026	.172 5618
.708	.741 7750	.517 915	.181 2279	.758	.763 4897	.800 824	.172 3893
.709	.742 2093	.523 435	.181 0467	.759	.763 9240	.806 628	.172 2170
1.710	0.742 6436	5.528 961	0.180 8658	1.760	0.764 3583	5.812 437	0.172 0449
.711	.743 0779	·534 493	.180 6850	.761	.764 7926	.818 253	.171 8729
.712	.743 5122	·540 030	.180 5044	.762	.765 2269	.824 074	.171 7011
.713	.743 9464	·545 573	.180 3240	.763	.765 6612	.829 901	.171 5295
.714	.744 3807	·551 122	.180 1438	.764	.766 0955	.835 734	.171 3581
1.715	0.744 8150	5.556 676	0.179 9637	1.765	0.766 5298	5.841 572	0.171 1868
.716	.745 2493	.562 235	.179 7838	.766	.766 9641	.847 417	.171 0157
.717	.745 6836	.567 800	.179 6042	.767	.767 3983	.853 267	.170 8448
.718	.746 1179	.573 371	.179 4246	.768	.767 8326	.859 123	.170 6740
.719	.746 5522	.578 947	.179 2453	.769	.768 2669	.864 985	.170 5034
1.720	0.746 9865	5.584 528	0.179 0661	1.770	0.768 7012	5.870 853	0.170 3330
.721	.747 4208	.590 116	.178 8872	.771	.769 1355	.876 727	.170 1627
.722	.747 8551	.595 709	.178 7084	.772	.769 5698	.882 607	.169 9927
.723	.748 2894	.601 307	.178 5298	.773	.770 0041	.888 492	.169 8228
.724	.748 7237	.606 911	.178 3513	.774	.770 4384	.894 384	.169 6530
1.725	0.749 1580	5.612 521	0.178 1731	1.775	0.770 8727	5.900 281	0.169 4834
.726	.749 5923	.618 136	.177 9950	.776	.771 3070	.906 184	.169 3141
.727	.750 0266	.623 757	.177 8171	.777	.771 7413	.912 094	.169 1448
.728	.750 4609	.629 384	.177 6393	.778	.772 1756	.918 009	.168 9758
.729	.750 8952	.635 016	.177 4618	.779	.772 6099	.923 930	.168 8069
1.730	0.751 3295	5.640 654	0.177 2844	1.780	0.773 0442	5.929 856	0.168 6381
.731	.751 7637	.646 297	.177 1072	.781	.773 4785	.935 789	.168 4696
.732	.752 1980	.651 947	.176 9302	.782	.773 9128	.941 728	.168 3012
.733	.752 6323	.657 601	.176 7534	.783	.774 3471	.947 673	.168 1330
.734	.753 0666	.663 262	.176 5767	.784	.774 7814	.953 623	.167 9649
1.735	0.753 5009	5.668 928	0.176 4002	1.785	0.775 2157	5.959 580	0.167 7971
.736	.753 9352	.674 600	.176 2239	.785	.775 6499	.965 543	.167 6293
.737	.754 3695	.680 277	.176 0478	.787	.776 0842	.971 511	.167 4618
.738	.754 8038	.685 960	.175 8718	.788	.776 5185	.977 486	.167 2944
.739	.755 2381	.691 649	.175 6960	.789	.776 9528	.983 466	.167 1272
1.740	0.755 6724	5.697 343	0.175 5204	1.790	0.777 3871	5.989 452	0.166 9602
.741	.756 1067	.703 044	.175 3450	.791	.777 8214	.995 445	.166 7933
.742	.756 5410	.708 750	.175 1697	.792	.778 2557	6.001 443	.166 6266
.743	.756 9753	.714 461	.174 9946	.793	.778 6900	.007 448	.166 4600
.744	.757 4096	.720 178	.174 8197	.794	.779 1243	.013 458	.166 2937
1.745	0.757 8439	5.725 901	0.174 6450	1.795	0.779 5586	6.019 475	0.166 1275
.746	.758 2782	.731 630	.174 4704	.796	.779 9929	.025 497	.165 9614
.747	.758 7125	.737 365	.174 2960	.797	.780 4272	.031 526	.165 7955
.748	.759 1468	.743 105	.174 1218	.798	.780 8615	.037 560	.165 6298
.749	.759 5810	.748 851	.173 9478	.799	.781 2958	.043 601	.165 4643
1.750	0.760 0153	5.754 603	0.173 7739	1.800	0.781 7301	6.049 647	<b>0</b> .165 <i>2</i> 989
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е-ч	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e—u

.801 .78 .802 .78 .803 .78 .804 .78 .803 .78 .804 .78 .805 .78 .806 .78 .806 .78 .808 .78 .809 .78 .810 .78 .811 .78 .812 .78 .813 .78 .814 .78 .815 .78 .816 .78 .817 .78 .818 .78 .819 .78 .821 .79 .822 .79 .823 .79 .824 .79 .825 .79 .826 .79 .827 .79 .828 .79 .829 .79 .829 .79 .829 .79 .830 .79 .831 .79 .831 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79	32 1644 32 5987 33 0330 33 4672 33 9015 34 3358 34 3358 35 2044 35 6387 36 0730 36 5073 36 9416 37 3759 38 2445 38 6788 39 1131 39 5474 39 9817 30 4160 30 8503 31 2845 31 7188 32 1531	6.049 647 .055 770 .061 759 .067 824 .073 895 6.079 971 .086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001 .215 213	0.165 2989 .165 1337 .164 9686 .164 8037 .164 6390  0.164 4745 .164 3101 .164 1458 .163 9818 .163 8179  0.163 6541 .163 4906 .163 3272 .163 1639 .163 0008  0.162 8379 .162 5126 .162 5126 .162 3501 .162 1879  0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789  0.161 2176 .160 8955	1.850 .851 .852 .853 .854  1.855 .856 .857 .858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868 .869 1.870 .871 .872 .873 .874	0.803 4448 .803 8791 .804 3134 .804 7477 .805 1820  0.805 6163 .806 0506 .806 4849 .806 9191 .807 3534  0.807 7877 .808 2220 .808 6563 .809 0906 .809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	6.359 820 .365 183 .372 552 .378 928 .385 310 6.391 698 .398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .507 791 .514 302 6.520 819 .527 343	0.157 2372 .157 2372 .157 9230 .156 9230 .156 6095 0.156 4529 .156 2966 .156 1403 .155 9843 .155 8284 0.155 5170 .155 3616 .155 5512 0.154 8962 .154 754 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3558
.801 .78 .802 .78 .803 .78 .804 .78 .803 .78 .804 .78 .805 .78 .806 .78 .806 .78 .808 .78 .809 .78 .810 .78 .811 .78 .812 .78 .813 .78 .814 .78 .815 .78 .816 .78 .817 .78 .818 .78 .819 .78 .821 .79 .822 .79 .823 .79 .824 .79 .825 .79 .826 .79 .827 .79 .828 .79 .829 .79 .829 .79 .829 .79 .830 .79 .831 .79 .831 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79	32 1644 32 5987 33 0330 33 4672 33 9015 34 3358 34 7701 35 2044 35 6387 36 0730 36 5073 36 9416 37 3759 38 2445 38 6788 39 1131 39 5474 39 9817 30 4160 30 9817 31 7188 32 1531 33 0217 33 0217 33 0217 33 4560	.055 700 .061 759 .067 824 .073 895 6.079 971 .086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 165 1337 . 164 9686 . 164 8037 . 164 6390 0 . 164 4745 . 164 3101 . 164 1458 . 163 9818 . 163 8179 0 . 163 6541 . 163 4906 . 163 3272 . 163 1639 . 163 0008 0 . 162 8379 . 162 6752 . 162 5126 . 162 3501 . 162 1879 0 . 162 0258 . 161 8638 . 161 7020 . 161 3789 0 . 161 2176	.851 .852 .853 .854 I.855 .856 .859 I.860 .861 .862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .871	.803 8791 .804 3134 .804 7477 .805 1820  0.805 6163 .806 0506 .806 4849 .806 9191 .807 3534  0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249  0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	.365 183 .372 552 .378 928 .385 310 6.391 698 .398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .443 037 .444 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 157 0800 . 156 9230 . 156 76095 . 156 6095 0. 156 4529 . 156 2966 . 155 9843 . 155 8284 0. 155 5170 . 155 3616 . 155 2063 . 155 0512 0. 154 7414 . 154 5867 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 5084 0. 153 3550
.802 .78 .803 .78 .804 .78 .803 .78 .804 .78 .805 .78 .806 .78 .807 .78 .808 .78 .809 .78 .811 .78 .812 .78 .813 .78 .814 .78 .815 .78 .816 .78 .817 .78 .818 .78 .819 .78 .819 .78 .821 .79 .822 .79 .823 .79 .824 .79 .825 .79 .826 .79 .827 .79 .828 .79 .829 .79 .829 .79 .829 .79 .829 .79 .831 .79 .832 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79	32 5987 33 0330 33 4672 33 9015 34 3358 34 3358 35 2044 35 6387 36 5073 36 9416 37 3759 38 2445 38 6788 39 1131 39 5474 30 9817 30 4160 30 4160 30 4160 31 7188 32 1531 33 0217 33 0217 33 4560	.061 759 .067 824 .073 895 6.079 971 .086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 164 9686 . 164 8037 . 164 6390 0 . 164 4745 . 164 3101 . 164 1458 . 163 9818 . 163 8179 0 . 163 6541 . 163 4906 . 163 3272 . 163 1639 . 163 0008 0 . 162 8379 . 162 6752 . 162 5126 . 162 3501 . 162 1879 0 . 162 0258 . 161 8638 . 161 7020 . 161 3789 0 . 161 2176	.852 .853 .854 .855 .856 .857 .858 .859 .861 .862 .863 .864 .866 .867 .868 .869 .871 .870 .871	.804 3134 .804 7477 .805 1820 0.805 6163 .806 0506 .806 4849 .806 9191 .807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	372 552 378 928 385 310 6.391 698 398 093 404 494 410 902 417 316 6.423 737 430 164 436 597 443 037 444 483 6.455 936 462 395 468 861 475 333 481 811 6.488 296 494 788 501 286 507 791 514 302 6.520 819	. 156 9230 . 156 7662 . 156 6095 . 156 4529 . 156 2966 . 156 1403 . 155 9843 . 155 5170 . 155 3616 . 155 2063 . 155 0512 0. 154 7414 . 154 5867 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 3584 0. 153 3550
.803	33 0330 33 4672 33 9015 34 3358 34 7701 35 2044 35 6387 36 9416 36 5073 36 9416 37 3759 37 8102 38 2445 38 6788 39 5474 39 9817 30 4160 30 8503 30 2845 31 7188 32 1531 33 0217 33 0217 33 4560	.073 895 6.070 971 .086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 164 8037 . 164 6390 0. 164 4745 . 164 3101 . 164 1458 . 163 9818 . 163 8179 0. 163 6541 . 163 4906 . 163 3272 . 163 1630 . 163 0008 0. 162 8379 . 162 5752 . 162 5150 . 162 3501 . 162 1879 0. 161 20258 . 161 7020 . 161 5404 . 161 3789 0. 161 2176	.853 .854 I.855 .856 .857 .858 .859 I.860 .861 .862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .872 .873 .874	.804 7477 .805 1820  0.805 6163 .806 0506 .806 4849 .806 9191 .807 3534  0.807 7877 .808 2220 .808 6563 .809 0906 .809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	.385 310 6.391 698 .398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 156 7662 . 156 7662 . 156 6095 0. 156 4529 . 156 2966 . 156 1403 . 155 9843 . 155 8284 0. 155 5170 . 155 3616 . 155 2063 . 155 0512 0. 154 8962 . 154 7867 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 3584 0. 153 3550
.804	33 4672 33 9015 34 3358 34 7701 35 2044 35 6387 36 9416 37 3759 37 8102 38 2445 38 6788 39 5474 39 9817 90 4160 90 4160 91 2845 91 7188 92 1531 92 5874 93 0217 93 4560	.073 895 6.070 971 .086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	0.164 6390  0.164 4745 .164 3101 .164 1458 .163 9818 .163 8179  0.163 6541 .163 4906 .163 3272 .163 1639 .163 0008  0.162 8379 .162 6752 .162 5126 .162 3501 .162 1879  0.162 0258 .161 8638 .161 7020 .161 3789  0.161 2176	.854  1.855 .856 .857 .858 .859  1.860 .861 .862 .863 .864  1.865 .866 .867 .868 .869  1.870 .871 .872 .873 .874  1.875	0.805 1820 0.805 6163 .806 0506 .806 4849 .806 9191 .807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.385 310 6.391 698 .398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.156 6095 0.156 4529 1.156 2966 1.156 1403 1.155 9843 1.155 8284 0.155 5170 1.155 3016 1.155 2063 1.155 0512 0.154 8962 1.154 74114 1.154 4322 1.154 2779 0.154 1237 1.153 9696 1.153 8157 1.153 6620 1.153 35584 0.153 35584
.806	34 3358 34 7701 35 6387 36 0730 36 5073 36 5073 37 3759 37 8102 38 2445 38 2445 39 5474 39 9817 30 4160 30 8503 30 245 31 7188 32 1531 33 0217 33 4560	.086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 1879 0.162 0258 161 8638 161 7020 161 3789 0.161 2176	.856 .857 .858 .859 .860 .861 .862 .863 .864 .865 .866 .867 .868 .869 .871 .872 .873 .874	.806 0506 .806 4849 .806 9191 .807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .443 037 .444 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 156 2966 . 156 1403 . 155 8284 0. 155 5170 . 155 5170 . 155 2063 . 155 0512 0. 154 8962 . 154 7414 . 154 5867 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 3584 0. 153 3550
.806	34 3358 34 7701 35 6387 36 0730 36 5073 36 5073 37 3759 37 8102 38 2445 38 2445 39 5474 39 9817 30 4160 30 8503 30 245 31 7188 32 1531 33 0217 33 4560	.086 054 .092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 8379 0.162 1879 0.162 0258 161 8638 161 7020 161 3789 0.161 2176	.856 .857 .858 .859 .860 .861 .862 .863 .864 .865 .866 .867 .868 .869 .871 .872 .873 .874	.806 0506 .806 4849 .806 9191 .807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	398 093 .404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .443 037 .444 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 156 2966 . 156 1403 . 155 8284 0. 155 5170 . 155 5170 . 155 2063 . 155 0512 0. 154 8962 . 154 7414 . 154 5867 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 3584 0. 153 3550
.807 .78 .808 .78 .808 .78 .809 .78 .810 .78 .811 .78 .812 .78 .813 .78 .814 .78 .815 .78 .816 .78 .817 .78 .818 .78 .819 .78 .819 .79 .822 .79 .823 .79 .824 .79 .825 .79 .826 .79 .827 .79 .828 .79 .829 .79 .829 .79 .829 .79 .821 .79 .821 .79 .822 .79 .823 .79 .824 .79 .825 .79 .826 .79 .827 .79 .828 .79 .829 .79 .829 .79 .829 .79 .831 .79 .831 .79 .831 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79 .833 .79	34 7701 35 2044 36 6387 36 0730 36 5073 36 9416 37 3759 37 8102 38 2445 38 6788 39 5474 39 9817 30 4160 30 2845 31 7188 32 1531 32 5874 33 0217 33 4560	.092 144 .098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 164 1458 . 163 9818 . 163 9818 . 163 8179 0. 163 6541 . 163 4906 . 163 3272 . 163 1639 . 163 0008 0. 162 8379 . 162 5752 . 162 5126 . 162 3501 . 162 1879 0. 161 8638 . 161 7020 . 161 5404 . 161 3789 0. 161 2176	.857 .858 .859 I.860 .861 .862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .872 .873 .874	.806 4849 .806 9191 .807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.404 494 .410 902 .417 316 6.423 737 .430 164 .436 597 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 156 1403 . 155 9843 . 155 9843 . 155 9843 . 155 9826 . 155 5170 . 155 3616 . 155 2063 . 155 0512 0. 154 8962 . 154 7414 . 154 4322 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 5084 0. 153 3550
.808	35 2044 35 6387 36 0730 36 5073 36 9416 37 3759 37 8102 38 2445 38 6788 39 1131 39 5474 39 9817 30 4160 30 217 31 0217 32 5874 33 0217 33 4560	.098 239 .104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 163 9818 .163 8179 0. 163 6541 .163 4906 .163 3272 .163 1639 .163 0008 0. 162 8379 .162 6752 .162 5126 .162 3501 .162 1879 0. 162 0258 .161 8638 .161 7020 .161 3789 0. 161 2176 .161 9565	.858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868 .869 1.870 .871 .872 .873 .874	.806 9191 .807 3534  0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249  0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	.410 902 .417 316 6.423 737 .430 164 .436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	155 9843 155 8284 0.155 6726 .155 5170 .155 3616 .155 2063 .155 0512 0.154 8962 .154 7414 .154 5867 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3550
.809 .78  1.810 0.78  .811 78  .812 .78  .813 .78  .814 .78  1.815 0.78  .816 .78  .817 .78  .818 .78  .819 .78  1.820 0.79  .821 .79  .822 .79  .823 .79  .824 .79  1.825 0.79  .827 .79  .828 .79  .829 .79  1.830 0.79  .831 .79  1.830 0.79  .831 .79  1.835 0.79  .833 .79  .834 .79  1.835 0.79  .836 0.79  .837 .79	35 6387 36 0730 36 5073 36 9416 37 3759 37 8102 38 2445 38 6788 39 1131 39 5474 39 9817 30 4160 30 4160 30 4160 30 4160 31 7188 32 1531 33 0217 33 4560	.104 340 6.110 447 .116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	0.163 8179 0.163 6541 .163 4906 .163 3272 .163 1639 .163 0008 0.162 8379 .162 6752 .162 5126 .162 3501 .162 0258 .161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868 .869 1.870 .871 .872 .873 .874	0.807 3534 0.807 7877 .808 2220 .808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.417 316 6.423 737 .430 164 .436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 701 .514 302 6.520 819	0.155 6726 .155 5170 .155 3616 .155 2063 .155 0512  0.154 8962 .154 7414 .154 5867 .154 4322 .154 2779  0.154 1237 .153 9696 .153 8157 .153 6620 .153 3550
.811	36 5073 36 9416 37 3759 37 8102 38 2445 38 2445 39 1131 39 5474 39 9817 30 4160 30 2845 31 7188 32 1531 32 25874 33 0217 33 4560	.116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 163 4906 . 163 3272 . 163 1639 . 163 0008 0. 162 8379 . 162 6752 . 162 5150 . 162 1879 0. 162 0258 . 161 6638 . 161 7020 . 161 3789 0. 161 2176	.861 .862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .872 .873 .874	.808 2220 .808 6563 .809 0906 .809 5249  0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	.430 164 .436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	.155 5170 .155 3616 .155 2063 .155 0512 0.154 8962 .154 7414 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3550
.811	36 5073 36 9416 37 3759 37 8102 38 2445 38 2445 39 1131 39 5474 39 9817 30 4160 30 2845 31 7188 32 1531 32 25874 33 0217 33 4560	.116 561 .122 681 .128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	. 163 3272 . 163 1639 . 163 0008 0. 162 8379 . 162 6752 . 162 5126 . 162 1879 0. 162 0258 . 161 8638 . 161 7020 . 161 3789 0. 161 2176 . 161 0565	.861 .862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .872 .873 .874	.808 2220 .808 6563 .809 0906 .809 5249  0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964  0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679  0.814 3022 .814 7364	.430 164 .436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	.155 5170 .155 3616 .155 2063 .155 0512 0.154 8962 .154 7414 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3550
.812 .78 .813 .78 .814 .78 .814 .78 .815 0.78 .816 .78 .817 .78 .818 .78 .819 .78 .820 0.79 .821 .79 .822 .79 .822 .79 .823 .79 .824 .79 .825 0.79 .826 .79 .827 .79 .828 .79 .828 .79 .829 .79 .830 0.79 .831 .79 .833 .79 .833 .79 .834 .79 .835 0.79 .836 0.79	36 9416 37 3759 37 8102 38 2445 38 6788 39 5474 39 9817 90 4160 90 4160 91 2845 91 7188 92 1531 92 5874 93 9217 93 4560	. 122 681 . 128 806 . 134 938 6. 141 076 . 147 220 . 153 371 . 159 527 . 165 690 6. 171 858 . 178 033 . 184 215 . 190 402 . 196 595 6. 202 795 . 209 001	. 163 3272 . 163 1639 . 163 0008 0. 162 8379 . 162 6752 . 162 5126 . 162 1879 0. 162 0258 . 161 8638 . 161 7020 . 161 3789 0. 161 2176 . 161 0565	.862 .863 .864 I.865 .866 .867 .868 .869 I.870 .871 .873 .874	.808 6563 .809 0906 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679	.436 597 .443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.155 3616 .155 2063 .155 0512 0.154 8962 .154 7414 .154 5867 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3550
.813	87 3759 87 8102 88 2445 88 6788 89 1131 89 5474 89 9817 00 4160 00 8503 01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	.128 806 .134 938 6.141 076 .147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	.163 1639 .163 0008 0.162 8379 .162 6752 .162 5126 .162 3501 .162 1879 0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789	.863 .864 I.865 .866 .867 .868 .869 I.870 .871 .873 .874 I.875	.809 0006 .809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.443 037 .449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.155 2063 .155 0512 0.154 8962 .154 7414 .154 5867 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084
.814 .78  1.815 0.78 .816 .78 .817 .78 .818 .78 .819 .78  1.820 0.79 .821 .79 .822 .79 .823 .79 .824 .79 1.825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 1.830 0.79 .831 .79 .831 .79 .833 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	37 8102 38 2445 38 6788 39 1131 39 5474 39 9817 30 4160 30 8503 31 2845 31 7188 32 1531 32 5874 33 0217 33 4560	. 134 938 6. 141 076 . 147 220 . 153 371 . 159 527 . 165 690 6. 171 858 . 178 033 . 184 215 . 190 402 . 196 595 6. 202 795 . 209 001	0.162 8379 .162 6752 .162 5126 .162 3501 .162 1879 0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789	.864 1.865 .866 .867 .868 .869 1.870 .871 .872 .873 .874	0.809 5249 0.809 9592 .810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.449 483 6.455 936 .462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.154 8962 .154 7414 .154 5867 .154 4322 .154 2779 0.154 1237 .153 9696 .153 8157 .153 6620 .153 3584 0.153 3550
.816 .78 .817 .78 .818 .78 .819 .78 .820 0.79 .821 .79 .822 .79 .824 .79 .824 .79 .825 0.79 .826 .79 .828 .79 .829 .79 .830 0.79 .831 .79 .832 .79 .833 .79 .833 .79 .834 .79 .835 0.79 .836 0.79	38 6788 39 1131 39 5474 39 9817 00 4160 00 8503 01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	.147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	.162 6752 .162 5126 .162 3501 .162 1879 0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.866 .867 .868 .869 1.870 .871 .873 .874 1.875	.810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 154 7414 . 154 5867 . 154 4322 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 5084
.816 .78 .817 .78 .818 .78 .819 .78 .820 0.79 .821 .79 .822 .79 .824 .79 .824 .79 .825 0.79 .826 .79 .828 .79 .829 .79 .830 0.79 .831 .79 .832 .79 .833 .79 .833 .79 .834 .79 .835 0.79 .836 0.79	38 6788 39 1131 39 5474 39 9817 00 4160 00 8503 01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	.147 220 .153 371 .159 527 .165 690 6.171 858 .178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	.162 6752 .162 5126 .162 3501 .162 1879 0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.866 .867 .868 .869 1.870 .871 .873 .874 1.875	.810 3935 .810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.462 395 .468 861 .475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	. 154 7414 . 154 5867 . 154 4322 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 5084
.817	39 1131 39 5474 39 9817 00 4160 00 8503 01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	153 371 159 527 165 690 6.171 858 178 033 184 215 190 402 196 595 6.202 795 209 001	. 162 5126 . 162 3501 . 162 1879 0. 162 0258 . 161 8638 . 161 7020 . 161 5404 . 161 3789 0. 161 2176	.867 .868 .869 I.870 .871 .872 .873 .874 I.875	.810 8278 .811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	. 468 861 . 475 333 . 481 811 6.488 296 . 494 788 . 501 286 . 507 791 . 514 302 6.520 819	. 154 5867 . 154 4322 . 154 2779 0. 154 1237 . 153 9696 . 153 8157 . 153 6620 . 153 5084 0. 153 3550
.818 .78 .819 .78 .819 .78 .820 0.79 .821 .79 .822 .79 .823 .79 .825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 .830 0.79 .831 .79 .831 .79 .833 .79 .833 .79 .833 .79 .834 .79	39 9817 30 4160 30 8503 31 2845 31 7188 32 1531 32 5874 33 0217 33 4560	. 165 690 6. 171 858 . 178 033 . 184 215 . 190 402 . 196 595 6. 202 795 . 209 001	0.162 1879 0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.868 .869 1.870 .871 .872 .873 .874 1.875	.811 2621 .811 6964 0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.475 333 .481 811 6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.154 4322 .154 2779 0.154 1237 .153 9696 .153 8620 .153 5084 0.153 3550
.819 .78 1.820 0.79 1.821 .79 1.822 .79 1.823 .79 1.825 0.79 1.826 .79 1.829 .79 1.830 0.79 1.831 .79 1.832 .79 1.833 .79 1.833 .79 1.835 0.79 1.835 0.79 1.835 0.79	39 9817 30 4160 30 8503 31 2845 31 7188 32 1531 32 5874 33 0217 33 4560	. 165 690 6. 171 858 . 178 033 . 184 215 . 190 402 . 196 595 6. 202 795 . 209 001	0.162 0258 .161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.869 1.870 .871 .872 .873 .874 1.875	0.812 1307 .812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	6.488 296 .494 788 .501 286 .507 791 .514 302 6.520 819	0.154 2279 0.154 1237 .153 9696 .153 8157 .153 6620 .153 5084 0.153 3550
.821 .79 .822 .79 .823 .79 .824 .79 1.825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 1.830 0.79 1.830 0.79 1.831 .79 .831 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	00 8503 01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	.178 033 .184 215 .190 402 .196 595 6.202 795 .209 001	.161 8638 .161 7020 .161 5404 .161 3789 0.161 2176	.871 .872 .873 .874 1.875 .876	.812 5650 .812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.494 788 .501 286 .507 791 .514 302	.153 9696 .153 8157 .153 6620 .153 5084
.822 .79 .823 .79 .824 .79 1.825 0.79 .826 .79 .827 .79 .829 .79 1.830 0.79 .831 .79 .832 .79 .833 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	01 2845 01 7188 02 1531 02 5874 03 0217 03 4560	.184 215 .190 402 .196 595 6.202 795 .209 001	.161 7020 .161 5404 .161 3789 0.161 2176	.872 .873 .874 1.875 .876	.812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.501 286 .507 791 .514 302 6.520 819	.153 9696 .153 8157 .153 6620 .153 5084
.823 .79 .824 .79  I.825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 I.830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 I.835 0.79 .836 .79	01 7188 02 1531 02 5874 03 0217 03 4560	.190 402 .196 595 6.202 795 .209 001	.161 5404 .161 3789 0.161 2176	.872 .873 .874 1.875 .876	.812 9993 .813 4336 .813 8679 0.814 3022 .814 7364	.501 286 .507 791 .514 302 6.520 819	.153 8157 .153 6620 .153 5084 0.153 3550
.823 .79 .824 .79  I.825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 I.830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 I.835 0.79 .836 .79	01 7188 02 1531 02 5874 03 0217 03 4560	6.202 795 .209 001	0.161 3789 0.161 2176	.874 1.875 .876	.813 8679 0.814 3022 .814 7364	.507 791 .514 302 6.520 819	.153 6620 .153 5084 0.153 3550
1.825 0.79 .826 .79 .827 .79 .828 .79 .829 .79 1.830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	02 5874 03 0217 03 4560	6.202 795 .209 001	0.161 2176	.874 1.875 .876	.813 8679 0.814 3022 .814 7364	.514 302 6.520 819	0.153 3550
.826 .79 .827 .79 .828 .79 .828 .79 .830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	03 0217 03 4560	.209 001	. 161 0565	.876	.814 7364		
.827 .79 .828 .79 .829 .79 1.830 0.79 1.831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	3 4560		.161 0565	.876 877		.527 342	
.827 .79 .828 .79 .829 .79 1.830 0.79 1.831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79		.215 213	.160 8055	Q		,/ טדט	.153 2017
.829 .79 1.830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	3 8003	1223		•0//	.815 1707	.533 874	.153 0486
1.830 0.79 .831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	J ∪ J ∪ J	.221 431	.160 7347	.878	.815 6050	.540 411	152 8956
.831 .79 .832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79	3246	.227 656	.160 5741	.879	.816 0393	.546 955	.152 7428
.832 .79 .833 .79 .834 .79 1.835 0.79 .836 .79		6.233 887	0.160 4136	1.88o	0.816 4736	6.553 505	0.152 5901
.833 .79 .834 .79 1.835 0.79 .836 .79	5 1932	.240 124	.160 2532	.881	.816 9079	.560 062	.152 4376
.834 .79 1.835 0.79 .836 .79	5 6275	.246 367	.160 0931	.882	.817 3422	.566 625	.152 2852
1.835 0.79 .836 .79	06 0618	.252 616	.159 9330	.883	.817 7765	•573 195	.152 1330
.836 .79	6 4961	.258 872	159 7732	.884	.818 2108	·579 77I	.151 9810
		6.265 134	0.159 6135	1.885	0.818 6451	6.586 354	0.151 8291
	7 3647	.271 402	.159 4540	.886	819 0794	•592 944	.151 6773
.837 .79	7 7990	.277 677	.159 2946	.887	.819 5137	599 540	.151 5257
.838 .79	8 2333	.283 958	159 1354	.888	.819 9480	.606 143	.151 3743
.839 .79	8 6676	.290 245	.158 9763	.889	.820 3823	.612 753	.151 2230
		6.296 538	0.158 8174	1.890	0.820 8166	6.619 369	0.151 0718
	9 5361	.302 838	.158 6587	.891	.821 2509	.625 991	.150 9208
	9 9704	.309 144	.158 5001	.892	.821 6852	.632 621	.150 7700
	00 4047	.315 456	.158 3417	.893	.822 1195	.639 257	.150 6193
.844 .80	00 8390	.321 775	.158 1834	.894	.822 5537	.645 899	.150 4687
		6.328 100	0.158 0253	1.895	0.822 9880	6.652 548	0.150 3183
	01 7076		157 8674	896	.823 4223	.659 204	.150 1681
		•334 431		.897	.823 8566	.665 867	.150 0180
	2 1419	.334 431 .340 769	.157 7096			.672 536	149 8681
.849 .80	2 5762	.334 431 .340 769 .347 113	.157 5520	.898	.824 2909		149 7183
1.850 0.80		.334 431 .340 769			.824 2909	.679 212	,5 /

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
1.900	0.825 1595	6.685 894	0.149 5686	1.950	0.846 8742	7.028 688	0.142 2741
.901	.825 5938	.692 584	.149 4191	.951	.847 3085	.035 720	.142 1319
.902	.826 0281	.699 280	.149 2698	.952	.847 7428	.042 759	.141 9898
.903	.826 4624	.705 982	.149 1206	.953	.848 1771	.049 805	.141 8479
.904	.826 8967	.712 692	.148 9715	.954	.848 6114	.056 859	.141 7061
1.905	0.827 3310	6.719 408	0.148 8226	1.955	0.849 0457	7.063 919	0.141 5645
.906	.827 7653	.726 130	.148 6739	.956	.849 4800	.070 986	.141 4230
.907	.828 1996	.732 860	.148 5253	.957	.849 9143	.078 061	.141 2816
.908	.828 6339	.739 596	.148 3768	.958	.850 3486	.085 143	.141 1404
.909	.829 0682	.746 339	.148 2285	.959	.850 7829	.092 231	.140 9993
1.910	0.829 5025	6.753 089	0.148 0804	1.960	0.851 2172	7.099 327	0.140 8584
.911	.829 9368	.759 845	.147 9324	.961	.851 6515	.106 430	.140 7176
.912	.830 3710	.766 608	.147 7845	.962	.852 0858	.113 540	.140 5770
.913	.830 8053	.773 378	.147 6368	.963	.852 5201	.120 657	.140 4365
.914	.831 2396	.780 155	.147 4892	.964	.852 9544	.127 781	.140 2961
1.915	0.831 6739	6.786 939	0.147 3418	1.965	0.853 3887	7.134 913	0.140 1559
.916	.832 1082	.793 729	.147 1946	.966	.853 8230	.142 051	.140 0158
.917	.832 5425	.800 526	.147 0474	.967	.854 2572	.149 197	.139 8759
.918	.832 9768	.807 330	.146 9005	.968	.854 6915	.156 349	.139 7360
.919	.833 4111	.814 141	.146 7536	.969	.855 1258	.163 509	.139 5964
1.920 .921 .922 .923 .924	0.833 8454 .834 2797 .834 7140 .835 1483 .835 5826	6.820 958 ,827 783 .834 614 .841 452 .848 297	0.146 6070 .146 4604 .146 3140 .146 1678 .146 0217	1.970 .971 .972 .973	0.855 5601 .855 9944 .856 4287 .856 8630 .857 2973	7.170 676 .177 851 .185 032 .192 221 .199 417	0.139 4569 .139 3175 .139 1782 .139 0391 .138 9001
1.925	0.836 0169	6.855 149	0.145 8758	1.975	0.857 7316	7.206 620	0.138 7613
.926	.836 4512	.862 007	.145 7300	.976	.858 1659	.213 830	.138 6226
.927	.836 8855	.868 873	.145 5843	.977	.858 6002	.221 047	.138 4841
.928	.837 3198	.875 745	.145 4388	.978	.859 0345	.228 272	.138 3457
.929	.837 7541	.882 624	.145 2934	.979	.859 4688	.235 504	.138 2074
1.930 .931 .932 .933 .934	0.838 1884 .838 6226 .839 0569 .839 4912 .839 9255	6.889 510 .896 403 .903 303 .910 210 .917 123	0.145 1482 .145 0031 .144 8582 .144 7134 .144 5688	1.980 .981 .982 .983	0.859 9031 .860 3374 .860 7717 .861 2060 .861 6403	7.242 743 .249 989 .257 243 .264 504 .271 772	0.138 0692 .137 9312 .137 7934 .137 6557 .137 5181
1.935	0.840 3598	6.924 044	0.144 4243	1.985	0.862 0745	7.279 047	0.137 3806
.936	.840 7941	.930 972	.144 2799	.986	.862 5088	.286 330	.137 2433
.937	.841 2284	.937 906	.144 1357	.987	.862 9431	.293 620	.137 1061
.938	.841 6627	.944 847	.143 9916	.988	.863 3774	.300 917	.136 9691
.939	.842 0970	.951 796	.143 8477	.989	.863 8117	.308 222	.136 8322
1.940 .941 .942 .943	0.842 5313 .842 9656 .843 3999 .843 8342 .844 2685	6.958 751 .965 713 .972 682 .979 659 .986 642	0.143 7039 .143 5603 .143 4168 .143 2735 .143 1303	1.990 .991 .992 .993 .994	0.864 2460 .864 6803 .865 1146 .865 5489 .865 9832	7.315 534 .322 853 .330 179 .337 513 .344 854	0.136 6954 .136 5588 .136 4223 .136 2860 .136 1497
1.945	0.844 7028	6.993 632	0.142 9872	1,995	0.866 4175	7.352 203	0.136 0137
.946	.845 1371	7.000 629	.142 8443	.996	.866 8518	.359 559	.135 8777
.947	.845 5714	.007 633	.142 7015	.997	.867 2861	.366 922	.135 7419
.948	.846 0057	.014 644	.142 5589	.998	.867 7204	.374 293	.135 6062
.949	.846 4399	.021 662	.142 4164	.999	.868 1547	.381 671	.135 4707
1.950	0.846 8742	7.028 688	0.142 2741	2.000	0.868 5890	7.389 056	0.135 3353
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	8	e <sup>-u</sup>

2.005 0.870 7604 7.426 094 0.134 6603 2.055 0.802 4752 7.806 838 0.128 00 0.007 .871 6000 4.40 961 1.134 3912 0.57 .806 8.32 9005 8.14 640 0.127 70 0.872 6007 8.72 6007 6.455 858 1.134 1227 0.59 .803 3437 8.22 467 1.127 83 0.009 .872 4976 4.55 858 1.134 1227 0.59 .804 2123 8.38 128 1.127 83 0.009 .872 4976 4.55 858 1.134 1227 0.59 .804 2123 8.38 128 1.127 85 0.011 .873 3602 4.470 784 1.133 8548 0.61 .805 860 9.85 8.38 20 1.22 3 0.12 873 8005 4.478 259 1.133 7210 0.62 8.95 5152 860 543 1.22 0.101 8.74 3660 4.485 741 1.133 8573 0.063 8.95 9.495 8.66 543 1.22 70 0.14 8.74 6691 4.93 239 1.133 4538 0.064 8.80 3838 8.77 417 1.26 94 0.16 8.875 5377 5.508 232 1.133 1871 0.066 8.875 5377 5.508 232 1.133 1871 0.066 8.875 6303 4.503 8.23 263 1.132 9210 0.62 8.98 1210 9.80 899 1.126 43 0.19 8.76 8406 5.53 790 1.132 7882 0.05 8.08 8.53 8.00 1.26 81 0.19 8.76 8406 5.53 790 1.132 7882 0.05 8.08 8.55 3.01 9.00 8.89 8.01 0.02 1.26 1.20 1.20 1.20 1.20 1.20 1.20 1.20 1.20	.001	u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	ea	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>ŭ</sup>	e <sup>-u</sup>
.001	.001	2.000	0.868 5890	7.389 056	0.135 3353	2.050	0.890 3037	7.767 901	0.128 73
		.001	.869 0233	<b>.3</b> 96 449		.051		.775 673	.128 60
2.004	2.005	.002		.403 849				.783 452	.128 47
2.005 0.870 7604 7.426 004 0.134 6603 2.055 0.802 4752 7.806 838 0.128 0.007 871 1047 4.33 524 1.134 5257 0.05 8.802 0005 8.14 649 0.127 70 0.068 872 0033 4.44 9061 1.134 3912 0.57 8.803 3437 8.22 407 1.127 83 0.068 872 0033 4.448 406 1.134 2950 0.98 8.303 7780 8.30 294 1.127 70 83 0.009 8.72 4976 4.55 858 1.134 1227 0.59 8.84 2123 8.38 128 1.127 85 0.011 8.73 3602 4.470 784 1.133 8548 0.011 8.73 3602 4.470 784 1.133 8548 0.011 8.873 3605 4.470 784 1.133 8548 0.011 8.873 3605 4.470 784 1.133 8548 0.011 8.874 6691 4.493 230 1.133 4538 0.064 8.80 3838 8.77 417 1.126 94 1.014 8.74 6691 4.93 230 1.133 4538 0.064 8.80 3838 8.77 417 1.126 94 1.016 8.875 5377 5.508 232 1.133 1871 0.066 8.875 5377 5.508 232 1.133 1871 0.066 8.875 6303 4.575 8.23 2.133 1871 0.066 8.875 6303 4.558 8.23 2.03 1.32 9210 0.088 8.808 1210 9.08 895 1.126 43 0.19 8.76 8406 5.253 203 1.132 9210 0.08 8.808 1210 9.08 895 1.126 43 0.19 8.76 8406 5.53 790 1.132 7882 0.09 8.85 5537 9.1126 7123 8024 8.879 7011 5.545 867 1.132 5802 0.071 8.896 433 9.105 0.02 1.126 13 0.021 8.877 7001 5.545 867 1.132 5802 0.071 8.896 433 9.105 0.02 1.126 13 0.023 8.78 81434 5.554 17 1.132 3904 0.72 8.890 8.892 0.40 889 1.126 43 0.023 8.878 8777 5.500 974 1.132 2951 0.071 8.90 4239 9.32 752 1.126 10 0.22 8.878 8806 5.583 691 1.131 8619 0.076 9.091 5953 9.992 884 65 0.125 53 0.023 8.878 8777 5.500 974 1.132 2951 0.077 9.00 2026 9.98 491 1.125 30 0.028 880 7492 5.08 873 1.131 5955 0.78 902 4039 9.988 476 1.125 50 0.22 8.878 8434 5.501 7.131 5938 0.076 9.00 9.00 886 7.024 8.89 3190 5.00 5.88 873 1.131 5955 0.78 902 4039 9.988 476 1.125 43 0.031 8.82 0.021 8.89 890 7.668 9.00 8.80 1.125 50 0.02 8.88 81835 0.064 470 1.131 4069 0.079 9.00 28082 9.904 488 1.125 50 0.028 883 4220 0.668 6.67 572 1.131 7.031 0.077 9.00 2026 9.98 401 1.125 30 0.028 8.82 2027 6.69 9.08 1.131 5085 0.08 8.00 4050 9.08 401 1.125 30 0.038 8.82 2027 6.69 60 0.130 6805 0.093 9.00 608 0.004 6.124 30 0.033 8.82 2027 6.69 60 0.130 6805 0.093 9.004 6.004 6.004 6.004 6.004 6.004 6.004 6.004 6.004 6.004 6.004 6	2.005 0.870 7604 7.426 094 0.134 6603 2.055 0.802 4752 7.806 838 0.128 0.006 8.871 1947 4.433 524 1.134 5257 .055 802 9005 8.814 649 1.127 50 0.008 8.71 6300 4.40 961 1.134 3912 .057 .803 3.437 8.22 467 1.27 89 0.008 8.72 6033 4.48 406 1.134 3269 .058 803 7780 8.830 294 1.127 78 0.009 8.72 4970 4.55 858 1.134 1227 .055 8.94 2123 8.38 128 1.127 58 0.11 8.73 3602 4.70 784 1.133 8548 2.056 0.804 6.666 7.845 00 .853 800 .122 73 0.11 8.73 3602 4.70 784 1.133 8548 2.056 0.804 6.666 7.845 00 .853 800 1.127 32 0.11 8.74 6201 4.70 784 1.133 5873 .003 8.95 880 853 880 1.127 32 0.13 8.74 2348 4.75 784 1.133 5873 .003 8.95 880 853 880 1.127 32 0.13 8.74 2348 4.75 784 1.133 5873 .003 8.95 880 5.85 880 5.43 1.127 0.014 8.74 6501 4.93 230 1.133 4538 .004 8.80 838 8.77 417 1.120 94 0.016 8.75 5377 5.08 232 1.133 1871 .006 8.80 2824 8.91 87 1.126 69 0.18 876 4063 5.53 20 90 1.132 4280 .007 8.80 8181 7.88 5.93 80 1.126 69 0.18 8.76 4063 5.53 20 90 1.132 5822 .009 8.80 81210 .008 8.80 1.126 30 0.18 8.76 4063 5.53 20 90 1.132 5822 .009 8.80 81210 .008 8.80 1.126 33 0.126 43 0.12 8.77 7001 8.75 7001 2.54 867 1.132 5210 .008 8.80 81210 .008 8.80 1.126 33 0.126 43 0.12 8.87 7001 5.45 867 1.132 5210 .008 8.80 81210 .008 8.80 1.126 30 0.22 8.87 8143 5.53 417 1.132 3944 0.02 8.80 8.81 9.90 8.89 8.10 8.10 8.00 8.80 8.10 8.00 8.00 8.80 8.10 8.00 8.80 8.10 8.00 8.80 8.10 8.00 8.80 8.10 8.00 8.0								
.006		.004	.870 3201	.418 072	.134 7950	.054	.892 0409	.799 o35	.128 22
.006		2.005	0.870 7604	7.426 094	0.134 6603	2.055	0.892 4752	7.806 838	0.128 00
.008	.008	<b>.o</b> o6	.871 1947	.433 524	.134 5257		892 9095		.127 96
2.010	2.010	.007		.440 961		.057	.893 3437		.127 83
2.010	2.010								.127 70
.011	.011	•009	.872 4976	.455 858	.134 1227	<b>.05</b> 9	.894 2123	.838 128	.127 58
.011	.011	2.010	0.872 9319	7.463 317	0.133 9887	2.060	0.894 6466	7.845 970	0.127 45
.012	.012							.853 820	
.014	.014	.012					.895 5152	.861 677	.127 19
2.015	2.015						.895 9495		.127 07
.016	.016	.014	.874 6691	493 230	133 4538	.064	.896 3838	.877 417	126 94
.016	.016	2.015	0.875 1034	7.500 727	0.133 3204	2.065	0.806 8181	7.885 208	0.126 81
.017	.017		.875 5377	.508 232					.126 69
0.19	0.019	.017				.067			.126 56.
2.020	2.020   0.877   2749   7.538   325   0.132   6555   2.070   0.898   0.896   7.924   823   0.126   18	.018					.898 1210	.908 989	.126 43
0.21   .877 7091   .545 867   .132 5229   .071   .899 4239   .932 752   .126 05	0.21   0.877 7091   0.545 867   0.132 5229   0.71   0.809 4239   0.932 752   0.126 055     0.024	.019	.876 8406	.530 <i>7</i> 90	.132 7882	.069	898 5553	.916 902	.126 31:
0.21   .877 7091   .545 867   .132 5229   .071   .899 4239   .932 752   .126 05	0.21   0.877 7091   0.545 867   0.132 5229   0.71   0.809 4239   0.932 752   0.126 055     0.024	2.020	0.877 2740	7.538 325	0.132 6555	2.070	0.808 0806	7.024 823	0.126 18
.022         .878         1434         .553         417         .132         2304         .072         .899         8582         .940         689         .125         93           .023         .878         5777         .560         974         .132         22581         .073         .900         2925         .948         683         .125         80           2.025         0.879         4463         7.576         111         0.131         938         2.075         0.901         1610         7.964         546         .0125         55           .026         .879         8806         .583         691         .131         7301         .076         .901         591         596         496         .125         43           .027         .880         3149         .591         278         .131         7301         .077         .902         296         .980         491         .125         30           .028         .880         7492         .598         873         .131         595         .078         .902         4639         .984         476         .125         30           2.030         .0.81         1678         7.614	.022								
.024         .879 0120         .568 539         .132 1259         .074         .900 7268         .956 586         .125 68           2.025         0.879 4463         7.576 111         0.131 9038         2.075         0.901 1610         7.964 546         0.125 55           .026         .879 8806         .583 691         .131 8619         .076         .901 5953         .972 515         .125 43           .027         .880 3149         .591 278         .131 7301         .077         .902 0296         .980 491         .125 30           .028         .880 7492         .598 873         .131 5985         .078         .902 4639         .988 476         .125 30           .029         .881 1835         .606 476         .131 4669         .079         .902 8982         .996 468         .125 05           2.030         .881 6178         7.614 086         0.131 3355         2.080         .993 3325         8.004 469         0.124 93           .031         .882 0521         .621 704         .131 3043         .081         .903 3768         .0012 477         .124 68           .032         .882 4864         .629 330         .130 791         .082         .904 2011         .020 494         .124 68           .033 <t< td=""><td>.024         .879 0120         .568 539         .132 1259         .074         .900 7268         .956 586         .125 68           2.025         0.879 8463         7.576 111         0.131 9038         2.075         0.901 1610         7.964 546         0.125 55           .026         .870 8806         .583 691         .131 8619         .076         .901 5953         .972 515         .125 43           .028         .880 7492         .598 873         .131 5985         .078         .902 4639         .984 476         .125 18           .029         .881 1835         .606 476         .131 4669         .079         .902 8982         .996 468         .125 18           .031         .882 0521         .621 704         .131 2043         .081         .903 7668         .012 477         .124 80           .031         .882 9221         .621 704         .131 2043         .081         .903 7668         .012 477         .124 80           .032         .882 4864         .629 330         .131 0731         .082         .904 2011         .020 494         .124 68           .033         .883 3550         .636 963         .130 5499         .084         .905 0697         .036 551         .124 43           2.035         .88</td><td>.022</td><td>.878 1434</td><td></td><td>.132 3904</td><td></td><td></td><td>940 689</td><td>,125 93</td></t<>	.024         .879 0120         .568 539         .132 1259         .074         .900 7268         .956 586         .125 68           2.025         0.879 8463         7.576 111         0.131 9038         2.075         0.901 1610         7.964 546         0.125 55           .026         .870 8806         .583 691         .131 8619         .076         .901 5953         .972 515         .125 43           .028         .880 7492         .598 873         .131 5985         .078         .902 4639         .984 476         .125 18           .029         .881 1835         .606 476         .131 4669         .079         .902 8982         .996 468         .125 18           .031         .882 0521         .621 704         .131 2043         .081         .903 7668         .012 477         .124 80           .031         .882 9221         .621 704         .131 2043         .081         .903 7668         .012 477         .124 80           .032         .882 4864         .629 330         .131 0731         .082         .904 2011         .020 494         .124 68           .033         .883 3550         .636 963         .130 5499         .084         .905 0697         .036 551         .124 43           2.035         .88	.022	.878 1434		.132 3904			940 689	,125 93
2.025	2.025	.023							
.026         .879         8806         .583         691         .131         8619         .076         .901         5953         .972         515         .125         43           .027         .880         3149         .591         278         .131         7301         .077         .902         0296         .980         491         .125         30           .028         .880         7492         .598         873         .131         5985         .078         .902         2696         .984         476         .125         30           .020         .881         1835         .606         476         .131         4669         .079         .902         8982         .996         468         .125         50           2.030         .881         6178         7.614         686         .131         3355         2.080         .903         3688         .012         477         .124         80           .031         .882         .9221         .621         704         .131         2043         .081         .903         7668         .012         477         .124         80           .032         .882         9207         .636	.026	.024	.879 0120	.568 539	.132 1259	.074	900 7268	.956 586	125 68
.026         .879         8806         .583         691         .131         8619         .076         .901         5953         .972         515         .125         43           .027         .880         3149         .591         278         .131         7301         .077         .902         0296         .980         491         .125         30           .028         .880         7492         .598         873         .131         5985         .078         .902         2696         .984         476         .125         30           .020         .881         1835         .606         476         .131         4669         .079         .902         8982         .996         468         .125         50           2.030         .881         6178         7.614         686         .131         3355         2.080         .903         3688         .012         477         .124         80           .031         .882         .9221         .621         704         .131         2043         .081         .903         7668         .012         477         .124         80           .032         .882         9207         .636	.026	2.025	0.879 4463	7.576 111	0.131 9938	2.075	0.901 1610	7.964 546	0.125 55
.027       .880 3149       .591 278       .131 7301       .077       .902 0296       .980 491       .125 30         .028       .880 7492       .598 873       .131 5985       .078       .902 4639       .988 476       .125 18         .029       .881 1835       .606 476       .131 4669       .079       .902 8982       .996 468       .125 18         2.030       0.881 6178       7.614 086       0.131 3355       2.080       .903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 8761	.027	.026		.583 691		.076	.901 5953		.125 43
.029       .881 1835       .606 476       .131 4669       .079       .902 8982       .996 468       .125 05         2.030       0.881 6178       7.614 086       0.131 3355       2.080       0.903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081 .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082 .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083 .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084 .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085 0.905 9383       .052 640       .124 18         .036       .884 6579       .667 572 1.30 4194       .087 .906 3726       .060 697 1.124 05         .038       .885 0922       .675 243 1.30 2890       .088 .906 8069       .068 761 1.123 93         .039       .885 5264       .682 922 1.30 158       .089 .907 2412 .076 834       .123 81         2.040       0.885 9607       7.690 609       .129 7689       .091 .908 1098       .093 004       .123 66 </td <td>.029       .881 1835       .606 476       .131 4669       .079       .902 8982       .996 468       .125 05         2.030       0.881 6178       7.614 086       0.131 3355       2.080       0.903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 6579       .667 572       .130 4194       .087       .906 3726       .040 697       .124 18         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .038       .885 9607       .698 304       .129 8987       .091       .908 1098       .093 004</td> <td>.027</td> <td>.880 3149</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.125 30</td>	.029       .881 1835       .606 476       .131 4669       .079       .902 8982       .996 468       .125 05         2.030       0.881 6178       7.614 086       0.131 3355       2.080       0.903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 6579       .667 572       .130 4194       .087       .906 3726       .040 697       .124 18         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .038       .885 9607       .698 304       .129 8987       .091       .908 1098       .093 004	.027	.880 3149						.125 30
2.030       0.881 6178       7.614 086       0.131 3355       2.080       0.903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081 .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082 .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083 .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084 .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085 0.905 5040       8.044 591 0.124 30         .036       .884 2236       .659 908 130 5499       .086 .905 9383 0.52 640       .052 640 124 18         .037       .884 6579 .667 572 130 4194 0.87 906 3726 0.66 697 1.124 05       .088 .906 8069 0.688 069 0.688 069 0.688 090 0.885 5264 0.682 922 0.130 1588 0.89 0.907 2412 0.068 8069 0.688 761 0.123 93         .039       .885 5264 0.682 922 0.130 1588 0.89 0.907 2412 0.076 834 0.123 81         2.040       0.885 9607 0.690 0.130 0287 0.091 0.908 1098 0.903 004 0.123 81         .042       .886 8293 0.706 006 0.129 7689 0.92 0.908 5441 0.101 101 1.123 44         .043       .887 2636 0.713 716 0.129 6392 0.998 9784 0.99 0.908 5441 0.1	2.030       0.881 6178       7.614 086       0.131 3355       2.080       0.903 3325       8.004 469       0.124 93         .031       .882 0521       .621 704       .131 2043       .081 .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082 .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083 .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084 .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085 0.905 5040       8.044 591 0.124 30         .036       .884 6279       .659 908 130 5499       .086 .905 9383 0.052 0.060 697 1.124 05         .037       .884 6579 .667 572 130 4194 0.087 .906 3726 0.060 697 1.124 05         .038       .885 0922 0.675 243 0.130 2890 0.88 0.906 8069 0.068 761 0.123 31         .039       .885 5264 0.682 922 0.130 1588 0.89 0.907 2412 0.068 34 0.123 31         .040       .885 3950 0.688 304 0.129 3897 0.091 0.908 1098 0.092 0.908 5411 0.101 101 1.123 44         .042       .886 8293 0.706 006 0.129 7689 0.092 0.908 5441 0.101 101 1.123 44         .044       .887 6979 0.721 433 0.129 5096 0.094 0.909 4126 0.117 320 0.123 19		.880 7492						.125 18
.031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 58         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       .7652 252       0.130 6805       2.085       .095 9383       .052 640       .124 18         0.036       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 9022       .675 243       .130 2890       .088 .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       .091 .908 1098       .093 004       .123 56         .041       .886 3935       .706 006       .129 7689       .092 .908 5441       .101 101       .123 44         .042	.031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       .095 9383       .052 640       .124 18         .036       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 0922       .075 243       .130 2890       .088 .906 8069       .066 71       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .042       .886 8293       .706 006       .129 7689       .091       .908 1098       .093 004       .123 31	.029	.881 1835	.000 470	.131 4009	.079	902 8982	.990 408	.125 05
.031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 65         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       .7652 252       0.130 6805       2.085       .095 9383       .052 640       .124 18         0.036       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 9022       .675 243       .130 2890       .088 .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       .091 .908 1098       .093 004       .123 68         .041       .886 8293       .706 006       .129 7689       .092 .908 5441       .101 101       .123 44         .043	.031       .882 0521       .621 704       .131 2043       .081       .903 7668       .012 477       .124 80         .032       .882 4864       .629 330       .131 0731       .082       .904 2011       .020 494       .124 68         .033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       .905 9383       .052 640       .124 18         .036       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 0922       .075 243       .130 2890       .086 .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .042       .886 8293       .706 006       .129 7689       .091       .908 1098       .093 004       .123 56	2.030	0.881 6178	7.614 086	0.131 3355	2.080	0.903 3325	8.004 469	0.124 93
.033       .882 9207       .636 963       .130 9421       .083       .904 6354       .028 518       .124 55         .034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .060 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .082 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8,084 915       0.123 68         .041       .886 3935       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101	.033			.621 704			.903 7668	.012 477	.124 80
.034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087 .906 3726       .060 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8887       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 6979       .721 433       .129 5096       .093       .908 9784       .109 206       .123 31 <td>.034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .060 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3930       .706 006       .129 7689       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 6979       .721 433       .129 5096       .093       .908 9784       .109 206</td> <td>.032</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>.124 68</td>	.034       .883 3550       .644 604       .130 8112       .084       .905 0697       .036 551       .124 43         2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .060 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3930       .706 006       .129 7689       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 6979       .721 433       .129 5096       .093       .908 9784       .109 206	.032							.124 68
2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .060 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088 .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089 .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8887       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19 <td>2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320</td> <td></td> <td></td> <td></td> <td>.130 9421</td> <td></td> <td></td> <td></td> <td>.124 55</td>	2.035       0.883 7893       7.652 252       0.130 6805       2.085       0.905 5040       8.044 591       0.124 30         .036       .884 2236       .659 908       .130 5499       .086       .905 9383       .052 640       .124 18         .037       .884 6579       .667 572       .130 4194       .087       .906 3726       .066 697       .124 05         .038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320				.130 9421				.124 55
.036       .884       2236       .659       908       .130       5499       .086       .905       9383       .052       640       .124       18         .037       .884       6579       .667       572       .130       4194       .087       .906       3726       .060       697       .124       18         .038       .885       0922       .675       243       .130       2890       .088       .906       8069       .068       761       .123       93         .039       .885       5264       .682       922       .130       1588       .089       .907       2412       .068       364       .123       31         2.040       0.885       9607       7.690       609       0.130       0287       .091       .908       1098       .093       004       .123       68         .041       .886       3950       .698       304       .129       8897       .091       .908       1098       .093       .004       .123       56         .042       .886       8293       .706       .060       .129       7689       .092       .098       5441       .101       101       1	.036	.034	.883 3550	.044 004	.130 8112	.084	1905 0097	.030 551	124 43
.036       .884       2236       .659       908       .130       5499       .086       .905       9383       .052       640       .124       18         .037       .884       6579       .667       572       .130       4194       .087       .906       3726       .060       697       .124       18         .038       .885       0922       .675       243       .130       2890       .088       .906       8069       .068       761       .123       93         .039       .885       5264       .682       922       .130       1588       .089       .907       2412       .068       364       .123       31         2.040       0.885       9607       7.690       609       0.130       0287       .091       .908       1098       .093       004       .123       68         .041       .886       3950       .698       304       .129       8897       .091       .908       1098       .093       .004       .123       56         .042       .886       8293       .706       .060       .129       7689       .092       .098       5441       .101       101       1	.036	2.035	0.883 7893	7.652 252	0.130 6805	2.085	0.905 5040	8.044 591	0.124 30
.038       .885 0922       .675 243       .130 2890       .088       .906 8069       .068 761       .123 93         .039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       .090 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 7155       .141 708       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708	.038       .885       0922       .675       243       .130       2890       .088       .906       8669       .068       761       .123       93         .039       .885       5264       .682       922       .130       1588       .089       .907       2412       .076       834       .123       81         2.040       0.885       9607       7.690       609       0.130       0287       2.090       0.907       6755       8.084       915       0.123       68         .041       .886       3950       .698       304       .129       8987       .091       .908       1098       .093       004       .123       56         .042       .886       8293       .706       006       .129       7689       .092       .908       5441       .101       101       .123       56         .043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       31         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320 <td< td=""><td></td><td>.884 2236</td><td>.659 908</td><td>.130 5499</td><td></td><td>.905 9383</td><td>.052 640</td><td>.124 18</td></td<>		.884 2236	.659 908	.130 5499		.905 9383	.052 640	.124 18
.039       .885 5264       .682 922       .130 1588       .089       .997 2412       .076 834       .123 81         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.997 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       .090 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854	.039       .885 5264       .682 922       .130 1588       .089       .907 2412       .076 834       .123 816         2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       .090 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .049       .889 4351       .752 381       .128 926       .096       .911 1498       .149 854								.124 05
2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       0.909 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841	2.040       0.885 9607       7.690 609       0.130 0287       2.090       0.907 6755       8.084 915       0.123 68         .041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       0.909 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008								.123 93
.041       .886       3950       .698       304       .129       8987       .091       .908       1098       .093       004       .123       56         .042       .886       8293       .706       006       .129       7689       .092       .908       5441       .101       101       .123       44         .043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       31         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       19         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0088       .744       632       .129       129       .097       .910       7155       .141       708	.041       .886 3950       .698 304       .129 8987       .091       .908 1098       .093 004       .123 56         .042       .886 8293       .706 006       .129 7689       .092       .908 5441       .101 101       .123 44         .043       .887 2636       .713 716       .129 6392       .093       .908 9784       .109 206       .123 31         .044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       .090 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 94         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008       .122 57         2.050       0.890 3037       7.767 901       0.128 7349       2.100       0.912 0184       8.166 170	.039	.885 5204	.082 922	.130 1588	,089	1907 2412	070 834	.123 810
.041       .886       3950       .698       304       .129       8987       .091       .908       1098       .093       004       .123       56         .042       .886       8293       .706       006       .129       7689       .092       .908       5441       .101       101       .123       44         .043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       31         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       19         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0088       .744       632       .129       129       .097       .910       7155       .141       708	.041       .886       3950       .698       304       .129       8987       .091       .908       1098       .093       004       .123       56         .042       .886       8293       .706       006       .129       7689       .092       .908       5441       .101       101       .123       44         .043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       31         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       31         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0008       .744       632       .129       1217       .097       .910       7155       .141       708 <td< td=""><td>2.040</td><td></td><td></td><td></td><td></td><td>0.907 6755</td><td></td><td>0.123 68</td></td<>	2.040					0.907 6755		0.123 68
.043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       31         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       19         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0008       .744       632       .129       1217       .097       .910       7155       .141       708       .122       82         .048       .889       4351       .752       381       .128       9926       .098       .911       1498       .149       854       .122       70         .049       .889       8694       .760       137       .128       8637       .099       .911       5841       .158       008 <td< td=""><td>.043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       311         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       19         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0008       .744       632       .129       1217       .097       .910       7155       .141       708       .122       82         .048       .889       4351       .752       381       .128       9926       .091       .911       1498       .149       854       .122       70         .049       .889       8694       .760       137       .128       8637       .099       .911       5841       .158       008       <t< td=""><td>.041</td><td>.886 3950</td><td></td><td>129 8987</td><td></td><td>908 1098</td><td>.093 004</td><td>.123 56</td></t<></td></td<>	.043       .887       2636       .713       716       .129       6392       .093       .908       9784       .109       206       .123       311         .044       .887       6979       .721       433       .129       5096       .094       .909       4126       .117       320       .123       19         2.045       0.888       1322       7.729       159       0.129       3802       2.095       0.909       8469       8.125       441       0.123       07         .046       .888       5665       .736       892       .129       2509       .096       .910       2812       .133       570       .122       94         .047       .889       0008       .744       632       .129       1217       .097       .910       7155       .141       708       .122       82         .048       .889       4351       .752       381       .128       9926       .091       .911       1498       .149       854       .122       70         .049       .889       8694       .760       137       .128       8637       .099       .911       5841       .158       008 <t< td=""><td>.041</td><td>.886 3950</td><td></td><td>129 8987</td><td></td><td>908 1098</td><td>.093 004</td><td>.123 56</td></t<>	.041	.886 3950		129 8987		908 1098	.093 004	.123 56
.044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       0.909 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008       .122 57	.044       .887 6979       .721 433       .129 5096       .094       .909 4126       .117 320       .123 19         2.045       0.888 1322       7.729 159       0.129 3802       2.095       0.909 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008       .122 57         2.050       0.890 3037       7.767 901       0.128 7349       2.100       0.912 0184       8.166 170       0.122 45								
2.045     0.888     1322     7.729     159     0.129     3802     2.095     0.909     8469     8.125     441     0.123     0.009       0.046     .888     5665     .736     892     .129     2509     .096     .910     2812     .133     570     .122     94       0.047     .889     0008     .744     632     .129     1217     .097     .910     7155     .141     708     .122     82       0.048     .889     4351     .752     381     .128     9926     .098     .911     1498     .149     854     .122     70       0.049     .889     8694     .760     137     .128     8637     .099     .911     5841     .158     008     .122     57	2.045       0.888 1322       7.729 159       0.129 3802       2.095       0.909 8469       8.125 441       0.123 07         .046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008       .122 57         2.050       0.890 3037       7.767 901       0.128 7349       2.100       0.912 0184       8.166 170       0.122 45								
.046     .888 5665     .736 892     .129 2509     .096     .910 2812     .133 570     .122 94       .047     .889 0008     .744 632     .129 1217     .097     .910 7155     .141 708     .122 82       .048     .889 4351     .752 381     .128 9926     .098     .911 1498     .149 854     .122 70       .049     .889 8694     .760 137     .128 8637     .099     .911 5841     .158 008     .122 57	.046 .888 5665 .736 892 .129 2509 .096 .910 2812 .133 570 .122 94 .047 .889 0008 .744 632 .129 1217 .097 .910 7155 .141 708 .122 82 .048 .889 4351 .752 381 .128 9926 .098 .911 1498 .149 854 .122 70 .049 .889 8694 .760 137 .128 8637 .099 .911 5841 .158 008 .122 57 2.050 0.890 3037 7.767 901 0.128 7349 2.100 0.912 0184 8.166 170 0.122 45	.044	.007 0979	.721 433	.129 5090	.094	.909 4120	.11/ 320	123 19
.046     .888 5665     .736 892     .129 2509     .096     .910 2812     .133 570     .122 94       .047     .889 0008     .744 632     .129 1217     .097     .910 7155     .141 708     .122 82       .048     .889 4351     .752 381     .128 9926     .098     .911 1498     .149 854     .122 70       .049     .889 8694     .760 137     .128 8637     .099     .911 5841     .158 008     .122 57	.046       .888 5665       .736 892       .129 2509       .096       .910 2812       .133 570       .122 94         .047       .889 0008       .744 632       .129 1217       .097       .910 7155       .141 708       .122 82         .048       .889 4351       .752 381       .128 9926       .098       .911 1498       .149 854       .122 70         .049       .889 8694       .760 137       .128 8637       .099       .911 5841       .158 008       .122 57         2.050       0.890 3037       7.767 901       0.128 7349       2.100       0.912 0184       8.166 170       0.122 45	2.045	0.888 1322		0.129 3802	2.095		8.125 441	0.123 07
.048 .889 4351 .752 381 .128 9926 .098 .911 1498 .149 854 .122 70 .049 .889 8694 .760 137 .128 8637 .099 .911 5841 .158 008 .122 57	.048     .889     4351     .752     381     .128     9926     .098     .911     1498     .149     854     .122     70       .049     .889     8694     .760     137     .128     8637     .099     .911     5841     .158     008     .122     57       2.050     0.890     3037     7.767     901     0.128     7349     2.100     0.912     0184     8.166     170     0.122     45	.046	.888 5665						.122 94
.049 .889 8694 .760 137 .128 8637 .099 .911 5841 .158 008 .122 57	.049 .889 8694 .760 137 .128 8637 .099 .911 5841 .158 008 .122 57 2.050 0.890 3037 7.767 901 0.128 7349 2.100 0.912 0184 8.166 170 0.122 45								.122 82
	2.050 0.890 3037 7.767 901 0.128 7349 2.100 0.912 0184 8.166 170 0.122 45		889 4351						
2.050   0.890 3037   7.767 901   0.128 7349   2.100   0.912 0184   8.166 170   0.122 45		.049	•00y 00y4	.700 137		.099	911 5041	ŀ	.122 5/
		2.050	0.890 3037	7.767 901	0.128 7349	2.100	0.912 0184	8.166 170	0.122 45

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	eu	e <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	9 <sup>—u</sup>
		0 -66				0 -0. 0-0	
2.100	0.912 0184	8,166 170	0.122 4564	2.150	0.933 7331	8.584 858	0.116 4842
.101	.912 4527	.174 340	.122 3340	.151	.934 1674	.593 448	.116 3677
.102	.912 8870	.182 519	.122 2118	.152	.934 6017	.602 045	.116 2514
. 103	.913 3213	.190 705	. 122 0896	.153	.935 0360	.610 652	.116 1352
.104	.913 7556	. 198 900	.121 9676	.154	935 4703	.619 267	.116 0192
2.105	0.914 1899	8.207 103	0.121 8457	2.155	0.935 9046	8.627 890	0.115 9032
.106	.014 6242	.215 314	.121 7239	.156	.936 3389	.636 522	.115 7873
.107	.915 0585	.223 534	.121 6022	.157	.936 7732	.645 163	.115 6716
.108	.915 4928	.231 761	.121 4807	.158	937 2075	653 813	.115 5560
.100	.915 9271	.239 997	121 3593	159	.937 6418	.662 471	.115 4405
		8.248 241	0.121 2380	2.160	0.938 0761	8.671 138	0.115 3251
2.110 .111	0.916 3614 916 7957	256 494	.121 1168	.161	.938 5104	.679 813	.115 2099
.112	.917 2299	264 754	.120 9957	. 162	.938 9447	.688 497	.115 0947
.113	.917 6642	.273 023	.120 8748	163	939 3790	.697 190	114 9797
.114	.918 0985	.281 300	.120 7540	.164	.939 8133	.705 892	.114 8647
3000	0.918 5328	8.289 586	0.120 6333	2.165	0.940 2476	8.714 602	0.114 7499
2.115	.918 9671	.207 879	.120 5127	.166	.940 6818	.723 321	.114 6352
.117	.919 4014	.306 182	.120 3923	.167	.941 1161	.732 049	.114 5207
.118	.919 8357	.314 492	.120 2719 .120 1517	.168	.941 5504 .941 9847	.740 785 .749 530	.114 4062
9			The state of the s				
2.120	0.920 7043	8.331 137	0.120 0316	2.170	0.942 4190	8.758 284	0.114 1776
.121	.921 1386	339 473	.119 9117	.171	.942 8533	.767 047	.114 0635
.122	.921 5729	.347 816	.119 7918	.172	.943 2876	.775 818	.113 9495
.123	.922 0072	.356 168	.119 6721	.173	.943 7219	.784 598	.113 8356
.124	.922 4415	.364 529	.119 5525	174	.944 1562	.793 387	.113 7218
2.125	0.922 8758	8.372 897	0.119 4330	2.175	0.944 5905	8.802 185	0.113 6082
.126	.923 3101	.381 275	.119 3136	.176	.945 0248	.810 992	.113 4946
.127	.923 7444	389 660	.119 1943	.177	945 4591	.819 807	
.128	.924 1787	398 054	.119 0752	.178	.945 8934	.828 631	.113 2678
.120	.924 6130	.406 456	.118 9562	.179	.946 3277	.837 464	.113 1540
0.700	0.007.0470	8.414 867	0.118 8373		0 046 7500	9 946 006	0 770 047
2.130	0.925 0472		.118 7185	2.180	0.946 7620	8,846 306	0.113 0415
.131	.925 4815	.423 286		.181	.947 1963	.855 157	.112 928
.132	.925 9158	.431 713	.118 5999	. 182	.947 6306	.864 017	.112 815;
.133	.926 3501	.440 149	.118 4813	. 183	.948 0649	.872 885	.112 7029
.134	.926 7844	.448 594	.118 3629	. 184	.948 4991	.881 762	.112 590;
2.135	0.927 2187	8.457 047	0.118 2446	2.185	0.948 9334	8.890 649	0.112 477
.136	.927 6530	.465 508	,118 1264	. 186	949 3677	.899 544	.112 365
.137	.928 0873	.473 978	.118 0083	. 187	.949 8020	.008 448	.112 2530
.138	.928 5216	.482 456	.117 8904	188	950 2363	.917 361	.112 1408
.139	.928 9559	.490 942	.117 7726	. 189	.950 6706		.112 028
2,140	0.929 3902	8.499 438	0.117 6548	2.190	0.951 1049	8.935 213	0.111 916
	929 8245	.507 941	.117 5372	.191	.951 5392		.111 804
.141	.930 2588	.516 454	.117 4198			052 101	717 604
.142	020 6021		.117 4198	.192	.951 9735	.953 101	.111 693
143 144	.930 6931	.524 974 .533 503	.117 1852	.193	.952 4078	.962 059 .971 026	.111 581 .111 4700
2.145	0.931 5617	8.542 041	0.117 0680	2.195	0.953 2764	8.980 001	0.111 358
.146		.550 500	.116 8341	.196	.953 7107	.988 986	.111 247
.147	.932 4303	.559 142		. 197	.954 1450	.997 979	.111 136
.148	.932 8645	.567 706 .576 278	.116 7174 .116 6007	. 198 . 199	954 5793 955 0136	9.006 982	.111 0250
2.150	0.933 7331	8.584 858	0.116 4842	2.200	0.955 4479	9.025 013	0.110 803
/ Bs	Park Fut	eu	e <sup>-u</sup>	tog (o <sup>u</sup> )	log-(ou)	e <sup>u</sup>	e <sup>-u</sup>
og <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	6	1 4	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	8	

2.200	u	iog 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>		(-u)	e <sup>u</sup>	e <sup>—u</sup>
202		10 <b>0</b> 10( <b>c</b> )			u	' log <sub>10</sub> (e <sup>u</sup> )	. 6	e -
202	2.200	0.955 4479	9.025 013	0.110 8032	2.250	0.977 1626	9.487 736	0.105 300
202   956 3164   .043 082   .110 5818   .252   .978 0312   .506 730   .105 108   .204   .957 1850   .061 186   .110 3608   .254   .978 8998   .525 763   .104 109 978   .253   .204   .957 1850   .061 186   .110 3608   .254   .978 8998   .525 763   .104 109 978   .255   .255 763   .104 978   .255   .205   .205   .205 8 0530   .079 326   .110 100 302   .257   .206   .208   .208 8 0536   .079 326   .110 100 302   .257   .208 0266   .554 383   .104 768   .209   .209   .205 9 .205   .205 9 .202   .200   .205 9 .202   .205 9 .208   .202   .205   .200   .205   .205   .205   .205   .200   .208   .205   .	.201	.955 8822		.110 6924		977 5969		
203   950 7507   052 120   110 4712   253   978 8055   516 242   105 053     204   957 1850   061 185   110 3608   224   079 8096   525 763   010 4976     2120   0.958 0530   0.99 326   1110 1403   225   0.979 3341   9.535 293   0.104 873     206   207   9958 4579   0.988 410   110 0302   2.257   0.808 2026   554 383   1.04 566     208   9.958 9222   0.07 503   1.09 9203   2.28   0.80 6360   553 942   1.04 566     22   210   0.959 7008   9.115 716   0.109 7006   2.250   0.81 5055   9.581 089     2.210   0.959 7008   9.115 716   0.109 7006   2.250   0.81 5055   9.581 089     2.211   9.960 2251   1.24 837   1.09 5910   2.61     2.212   9.960 6594   1.33 966   1.09 4815   2.62   9.81 9308   5.92 677   1.04 246     2.213   9.961 9237   1.144 837   1.09 5910   2.61     2.214   9.961 5280   1.52 252   1.09 2027   2.63   9.82 8084   6.11 882   1.04 938     2.215   0.961 9632   9.161 409   0.109 1535   2.265   0.983 6770   9.631 125   0.103 933     2.215   0.962 3966   1.70 750   1.08 9334   2.267   9.84 4366   6.650 406   1.03 502     2.216   9.962 3966   1.70 750   1.08 9334   2.267   9.84 4366   6.650 406   1.03 502     2.219   9.963 6592   1.98 128   1.08 7178   2.20   9.85 4142   6.69 726   1.03 112     2.220   0.964 1337   9.20 158 128   1.08 5006   2.270   0.85 8485   9.670 401   0.103 112     2.221   0.965 8709   2.245 244 944   1.08 1755   2.270   0.85 8485   9.670 401   0.103 112     2.222   0.965 6736   2.225 741   1.07 9394   2.275   0.988 4519   9.727 910   0.102 206     2.223   0.968 4767   9.290 866   0.107 5284   2.280   0.990 1914   9.776 680   0.102 206     2.233   0.960 644 2.90   5.104 6482   2.280   0.990 1914   9.776 680   0.102 206     2.234   0.976 2819   0.337 140   1.07 9394   2.275   0.988 8454   7.77 652   1.02 806     2.235   0.968 6470   9.290 866   0.107 5284   2.280   0.990 1914   9.776 680   0.102 206     2.236   0.976 6482   9.346 482   0.106 9021   2.285   0.990 2360   8.84 818   1.01 105 522     2.235   0.976 6482   9.346 482   0.106 9021   2.285   0.990 2360   8.84 505   0.101 505	.202		.043 082		.252	.978 0312		.105 188
2.215							.516 242	.105 083
200	.204	.957 1850	.001 180	.110 3008	.254	.978 8998	.525 763	.104 978
200	2.205			0.110 2505	2.255	0.979 3341	9.535 293	0.104 873
2.28			.079 326			1979 7684		.104 768
2.200								
2.210 0.959 7008 9.115 716 0.109 7006 2.2.60 0.981 5055 9.583 089 0.104 35   2.211 0.960 6251 1.124 837 1.09 5010 2.61   2.212 0.960 6594 1.33 966 1.109 3720 2.63   2.213 0.961 0.937 1.43 105 1.09 3720 2.63   2.214 0.961 5280 1.52 252 1.09 2627 2.64   2.215 0.961 5280 1.52 252 1.09 2627 2.64   2.215 0.961 9623   2.216 0.962 3066 1.70 575   1.08 9354 2.67   2.217 0.962 8309 1.70 750   1.08 9354 2.67   2.218 0.963 2052 1.88 935 1.08 8265 2.68 0.984 9799 6.60 061 1.03 562   2.219 0.963 6995 1.98 128 1.08 7178 2.69 0.985 4485 6.650 466 1.03 622   2.211 0.964 5680 2.216 543 1.08 5006 2.71 0.986 2888 0.680 085 1.03 103 203   2.212 0.965 6735 1.98 128 1.08 7178 2.69 0.985 4485 0.690 885 1.03 203   2.222 0.965 4366 2.244 994 1.08 2838 2.73 0.987 1514 7.08 483 1.03 003   2.224 0.965 8709 2.244 234 1.08 275 2.27 0.988 1599 9.727 919 1.03 103 2.26   2.222 0.967 7305 2.62 741 1.07 9594 2.27 0.988 8454 2.737 652 1.02 690   2.222 0.967 6081 2.81 285 1.07 7437 2.78 0.989 328 747 394 1.02 591 2.22 0.969 0.942 2.27 0.98 8885 7.77 149 1.02 591 2.22 0.968 0.942 2.27 0.969 1713 8 2.27 0.98 8885 7.77 149 1.02 591 2.23 0.969 482 2.290 571 1.07 6360 2.79 0.990 5751 7.07 690   2.233 0.968 4767 9.299 866 0.107 5284 2.285 0.990 1914 9.776 680 0.102 284 2.29 0.968 0.424 2.290 571 1.07 6360 2.79 0.980 5751 7.06 0.90 2.28 1.02 690 2.23 0.907 0.825 3.35 833 1.06 8852 2.285 0.990 6257 7.86 462 1.01 672 323 0.907 0.825 3.35 833 1.06 8852 2.285 0.990 2.285 3.35 833 1.06 8852 2.285 0.990 2.285 3.35 833 1.06 8852 2.285 0.990 2.284 4.290 571 0.07 6.05 2.28 0.990 2.284 0.991 2.285 0.990 2.284 0.991 2.285 0.990 2.284 0.991 2.285 0.990 2.284 0.991 2.285 0.990 2.284 0.991 2.285 0.990 2								
221	-	_						
.212								
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2.215								
216							.621 498	.103 933
216	2.215	0.061 0623	9.161 400	0.100 1535	2.265	0.083 6770	0.631 125	0.103 820
217								
2.18	- 1		.179 750	.108 9354				.103 622
2.210	.218		188 935	. 108 8265	.268	984 9799	.660 061	.103 519
221	.219	.963 6995	.198 128	.108 7178	.269		.669 726	.103 415
221       .964       5680       .216       543       .108       5006       .271       .986       2828       .698       759       .103       202         .222       .965       6923       .225       764       .108       3921       .272       .986       7171       .698       759       .103       103 <td< td=""><td>2.220</td><td></td><td>9.207 331</td><td></td><td></td><td></td><td>9.679 401</td><td>0.103 312</td></td<>	2.220		9.207 331				9.679 401	0.103 312
.223			.216 543			986 2828	.689 085	.103 208
2.225 0.966 3052 9.253 483 0.108 0674 2.275 0.988 0199 9.727 919 0.102 796   2.226 .966 7395 .262 741 .107 9594 .276 .988 4542 .737 652 .102 694   2.227 .967 1738 .272 008 .107 8515 .277 .988 8855 .747 394 .102 591   2.28 .967 6081 .281 285 .107 7437 .278 .988 8885 .747 394 .102 591   2.29 .968 0424 .290 571 .107 6360 .279 .989 3228 .757 147 .102 484   2.29 .968 9110 .309 171 .107 6360 .279 .989 7571 .766 909 .102 386   2.230 0.968 4767 9.299 866 0.107 5284 2.280 0.990 1914 9.776 680 0.102 284   2.231 .968 9110 .309 171 .107 4210 .281 .990 6257 .786 462 .102 182   2.232 .969 3453 .318 484 .107 3136 .282 .991 0600 .796 253 .102 075   2.233 .969 7796 .327 808 .107 2063 .283 .991 4943 .806 054 .101 977   2.234 .970 2139 .337 140 .107 0992 .284 .991 9286 .815 865 .101 875   2.235 0.996 6482 9.346 482 0.106 0921 2.285 0.992 3629 9.825 686   2.236 .997 10825 .355 833 .106 8852 .286 .992 7972 .835 517 .101 672   2.237 .971 5168 .365 194 .106 7784 .287 .993 2315 .845 357 .101 572   2.238 .971 9511 .374 563 .106 6716 .288 .993 6658 .855 208 .101 466   2.239 .972 3853 .383 943 .106 5650 .289 .994 1001 .865 068 .101 367   2.240 0.972 8196 9.393 331 0.106 4585   2.240 0.972 8196 9.393 331 0.106 4585 .290 .994 9087 .884 818 .101 165   2.241 .973 2539 .402 729 .106 3521 .291 .994 9087 .884 818 .101 165   2.242 0.973 6882 .412 137 .106 2458 .292 .995 4030 .894 707 .101 064   2.244 .974 5568 .430 980 .106 0335 .293 .995 8372 .904 607 .100 963   2.245 0.974 9911 9.440 416 0.105 9275 2.295 0.996 7058 9.924 436 0.100 560   2.245 0.975 4254 .449 861 .105 5975 2.295 0.996 7058 9.924 436 0.100 560   2.245 0.975 4254 .449 861 .105 5077 9.997 5744 .944 305 .100 650   2.246 .975 4254 .449 861 .105 5077 9.997 5744 .944 305 .100 650   2.247 .975 8597 .459 315 .105 5047 .299 .998 4430 .964 213 .100 459   2.248 .976 2940 .468 779 .105 6102 .298 .998 0087 .954 254 .100 459   2.248 .976 2940 .468 779 .105 6102 .298 .998 0087 .954 254 .100 459   2.249 .976 7283 .478 253 .105 5047 .299 .998 4430 .964 213 .100 459   2.249 .976 7283 .478 253 .10						.986 7171	.698 779	.103 105
2.225         0.966         3052         9.253         483         0.108         0674         2.275         0.988         0199         9.727         019         0.102         796           .226         .967         7378         .222         008         .107         9594         .276         .988         4542         .737         652         .102         694           .227         .967         1738         .272         008         .107         7437         .278         .989         3228         .757         147         .102         48           .228         .967         6081         .281         285         .107         7437         .278         .989         3228         .757         147         .102         48           .229         .968         9424         .290         571         .107         6360         .279         .989         7571         .766         800         .102         28           .231         .968         910         .309         171         .107         4210         .281         .990         6257         .786         462         .102         182           .232         .969         7456         .328				100 2038 108 1755		987 1514		
2.225	. 224	2.34					./10 190	.102 899
.227       .967       1738       .272       008       .107       8515       .277       .988       8885       .747       394       .102       591         .228       .967       6081       .281       285       .107       7437       .278       .989       3228       .757       147       .102       48         .229       .968       0424       .290       571       .107       6360       .279       .989       7571       .766       909       .102       28         2.230       0.968       4767       9.299       866       0.107       5284       2.280       0.990       1914       9.776       680       0.102       284         .231       .969       3453       .318       484       .107       3136       .282       .991       0600       .796       253       .102       072         .232       .969       3796       .327       808       .107       2063       .283       .991       900       .815       865       .101       973         .234       .970       2139       .346       482       0.106       9921       2.285       .992       392       9.825       686		0.906 3052				0.988 0199		0.102 796
.228       .967       6081       .281       285       .107       7437       .278       .989       3228       .757       147       .102       486         .229       .968       0424       .290       571       .107       6360       .279       .989       7571       .766       909       .102       386         2.230       0.968       4767       9.299       866       0.107       5284       2.280       0.990       1914       9.776       680       0.102       282         .231       .968       9110       .309       171       .107       4210       .281       .990       6257       .786       462       .102       182         .232       .969       3453       .318       484       .107       3136       .282       .991       0600       .796       253       .102       072         .233       .969       7796       .327       808       .107       2063       .283       .991       9286       .815       865       .101       977       .234       .970       2139       .337       140       .107       0992       .284       .991       9286       .815       865       .101								
.229       .968 0424       .290 571       .107 6360       .279       .989 7571       .766 909       .102 386         2.230       0.968 4767       9.299 866       0.107 5284       2.280       0.990 1914       9.776 680       0.102 284         .231       .968 9110       .309 171       .107 4210       .281       .990 6257       .786 462       .102 182         .232       .969 3453       .318 484       .107 3136       .282       .991 0600       .796 253       .102 073         .233       .969 7796       .327 808       .107 2063       .283       .991 4943       .806 054       .101 977         .234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 977         .235       .971 0825       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 5168       .365 194       .106 7784       .287       .993 2315       .845 357       .101 572         .238       .971 9511       .374 563       .106 6716       .288       .993 6658       .855 208       .101 466         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068								
.231       .968 9110       .309 171       .107 4210       .281       .990 6257       .786 462       .102 182         .232       .969 3453       .318 484       .107 3136       .282       .991 0600       .796 253       .102 075         .233       .969 7796       .327 808       .107 2063       .283       .991 4943       .806 054       .101 977         .234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 977         2.235       0.970 6482       9.346 482       0.106 9921       2.285       0.992 3629       9.825 686       0.101 774         .236       .971 9515       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 9511       .374 563       .106 6716       .288       .993 3658       .855 208       .101 456         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068       .101 367         2.240       0.972 8196       9.393 331       0.106 4585       2.290       0.994 5344       9.874 938       0.101 266         .241       .973 6882       .412 137       .106 3521       .291       .995 4030       .894 7							766 909	.102 386
.231       .968 9110       .309 17I       .107 4210       .281       .990 6257       .786 462       .102 182         .232       .969 3453       .318 484       .107 3136       .282       .991 0600       .796 253       .102 075         .233       .969 7796       .327 808       .107 2063       .283       .991 4943       .806 054       .101 977         .234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 977         2.235       0.970 6482       9.346 482       0.106 9921       2.285       0.992 3629       9.825 686       0.101 774         .236       .971 9516       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 9511       .374 563       .106 6716       .288       .993 3658       .855 208       .101 570         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068       .101 367         2.240       0.972 8196       9.393 331       0.106 4585       2.290       0.994 5344       9.874 938       0.101 266         .241       .973 2539       .402 729       .106 3521       .291       .994 9687       .884 8	2,230	0.068 4767	9.200 866	0.107 5284	2.280	0.000 1014	0.776 680	0.102 284
.332       .969 3453       .318 484       .107 3136       .282       .991 0600       .796 253       .102 075         .233       .969 7796       .327 808       .107 2063       .283       .991 4943       .806 054       .101 977         .234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 977         .2235       0.970 6482       9.346 482       0.106 9921       2.285       0.992 3629       9.825 686       0.101 774         .236       .971 0825       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 5168       .365 194       .106 7784       .287       .993 2315       .845 357       .101 572         .238       .971 9511       .374 563       .106 6716       .288       .993 6658       .855 208       .101 466         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068       .101 367         2.240       0.972 8196       9.393 331       0.106 4585       .2290       0.994 5049       .884 818       .101 165         .241       .973 2539       .402 729       .106 3521       .291       .995 4030       .894 707								
.233       .969 7796       .327 808       .107 2063       .283       .991 4943       .806 054       .101 977         .234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 977         2.235       0.970 6482       9.346 482       0.106 9921       2.285       0.992 3629       9.825 686       0.101 774         .236       .971 9825       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 5168       .365 194       .106 7784       .287       .993 2315       .845 357       .101 570         .238       .971 9511       .374 563       .106 6716       .288       .993 6658       .855 208       .101 460         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068       .101 367         2.240       0.972 8196       9.393 331       .106 3521       .290       .994 5344       9.874 938       0.101 266         .241       .973 2539       .402 739       .106 3521       .291       .995 4030       .894 707       .101 064         .242       .973 6882       .412 137       .106 1396       .292       .995 4030       .894 707<			.318 484		.282			102 079
.234       .970 2139       .337 140       .107 0992       .284       .991 9286       .815 865       .101 875         2.235       0.970 6482       9.346 482       0.106 9921       2.285       0.992 3629       9.825 686       0.101 774         .236       .971 9518       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 5168       .365 194       .106 7784       .287       .993 2315       .845 357       .101 570         .238       .971 9511       .374 563       .106 6716       .288       .993 6658       .855 208       .101 466         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 668       .101 466         .240       0.972 8196       9.393 331       0.106 4585       2.290       0.994 5344       9.874 938       0.101 266         .241       .973 2539       .402 729       .106 3521       .291       .994 9687       .884 818       .101 165         .242       .973 6882       .412 137       .106 2458       .292       .995 4030       .894 707       .101 664         .243       .974 1225       .421 554       .106 1396       .293       .995 8372       .904 60	.233	.969 <i>77</i> 96	.327 808	.107 2063		.991 4943	.806 054	.101 977
.236       .971 0825       .355 833       .106 8852       .286       .992 7972       .835 517       .101 672         .237       .971 5168       .365 194       .106 7784       .287       .993 2315       .845 357       .101 576         .238       .971 9511       .374 563       .106 6716       .288       .993 6658       .855 208       .101 466         .239       .972 3853       .383 943       .106 5650       .289       .994 1001       .865 068       .101 367         2.240       0.972 8196       9.393 331       0.106 4585       2.290       0.994 5344       9.874 938       0.101 266         .241       .973 2539       .402 729       .106 3521       .291       .994 9687       .884 818       .101 165         .242       .973 6882       .412 137       .106 2458       .292       .995 4030       .894 707       .101 064         .243       .974 1225       .421 554       .106 1396       .293       .995 8372       .904 607       .100 963         .244       .974 5568       .430 980       .106 0335       .294       .996 2715       .914 517       .100 862         2.245       0.974 9911       9.440 416       0.105 9275       2.295       0.996 7058       9.924 43	.234	.970 2139	.337 140	.107 0992	.284	.991 9286	.815 865	.101 875
.236       .971       0825       .355       833       .106       8852       .286       .992       7972       .835       517       .101       672         .237       .971       5168       .365       194       .106       6716       .287       .993       2315       .845       357       .101       572         .238       .971       9511       .374       563       .106       6716       .288       .993       6658       .855       208       .101       465         .239       .972       3853       .383       943       .106       5650       .289       .994       1001       .865       668       .101       465         2.240       0.972       8196       9.393       331       0.106       4585       2.290       0.994       5344       9.874       938       0.101       266         .241       .973       2539       .402       729       .106       3521       .291       .994       9687       .884       818       .101       165         .242       .973       6882       .412       137       .106       2458       .292       .995       4030       .894       707	2.235	0.970 6482	9.346 482			0.992 3629	9.825 686	0.101 774
.237       .971       5168       .365       194       .106       7784       .287       .993       2315       .845       357       .101       576         .238       .971       9511       .374       563       .106       6716       .288       .993       6658       .855       208       .101       460         .239       .972       3853       .383       943       .106       5650       .289       .994       1001       .865       668       .101       367         2.240       0.972       8196       9.393       331       0.106       4585       2.290       0.994       5344       9.874       938       0.101       266         .241       .973       2539       .402       729       .106       3521       .291       .994       9687       .884       818       .101       165         .242       .973       6882       .412       137       .106       4248       .292       .995       4030       .894       707       .101       604         .242       .974       1225       .421       554       .106       1396       .293       .995       8372       .904       607	.236						.835 517	.101 672
.239       .972       3853       .383       943       .106       5650       .289       .994       1001       .865       068       .101       367         2.240       0.972       8196       9.393       331       0.106       4585       2.290       0.994       5344       9.874       938       0.101       266         .241       .973       2539       .402       729       .106       3521       .291       .994       9687       .884       818       .101       165         .242       .973       6882       .412       137       .106       2458       .292       .995       4030       .894       707       .101       664         .243       .974       1225       .421       554       .106       1396       .293       .995       8372       .904       607       .100       963         .244       .974       5568       .430       980       .106       0335       .294       .996       2715       .914       517       .100       862         2.245       0.974       9911       9.440       416       0.105       9275       2.295       0.996       7058       9.924       436 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>845 357</td> <td>.101 570</td>							845 357	.101 570
2.240       0.972 8196       9.393 331       0.106 4585       2.290       0.994 5344       9.874 938       0.101 266         .241       .973 2539       .402 729       .106 3521       .291       .994 9687       .884 818       .101 165         .242       .973 6882       .412 137       .106 2458       .292       .995 4030       .894 707       .101 064         .243       .974 1225       .421 554       .106 1396       .293       .995 8372       .904 607       .100 963         .244       .974 5568       .430 980       .106 0335       .294       .996 2715       .914 517       .100 862         2.245       0.974 9911       9.440 416       0.105 9275       2.295       0.996 7058       9.924 436       0.100 761         .246       .975 4254       .449 861       .105 8217       .296       .997 1401       .934 365       .100 660         .247       .975 8597       .459 315       .105 7159       .297       .997 5744       .944 305       .100 560         .248       .976 2940       .468 779       .105 6102       .298       .998 0087       .954 254       .100 459         .249       .996 7283       .478 253       .105 5047       .299       .998 4430       .964 2							1 .855 208	101 469
.241       .973       2539       .402       729       .106       3521       .291       .994       9687       .884       818       .101       165         .242       .973       6882       .412       137       .106       2458       .292       .995       4030       .894       707       .101       064         .243       .974       1225       .421       554       .106       1396       .293       .995       8372       .904       607       .100       963         .244       .974       5568       .430       980       .106       0335       .294       .996       2715       .914       517       .100       862         2.245       0.974       9911       9.440       416       0.105       9275       2.295       0.996       7058       9.924       436       .100       862         2.246       .975       4254       .449       861       .105       8217       .296       .997       1401       .934       365       .100       560         .247       .975       8597       .459       315       .105       7159       .297       .997       5744       .944       305	.239	.972 3853	303 943		.209	.994 1001	.805 008	.101 367
.242       .973       6882       .412       137       .106       2458       .292       .995       4030       .894       707       .101       064         .243       .974       1225       .421       554       .106       1396       .293       .995       8372       .904       607       .100       963         .244       .974       5568       .430       980       .106       0335       .294       .996       2715       .914       517       .100       862         2.245       0.974       9911       9.440       416       0.105       9275       2.295       0.996       7058       9.924       436       0.100       761         .246       .975       4254       .449       861       .105       8217       .296       .997       1401       .934       365       .100       660         .247       .975       8597       .459       315       .105       7159       .297       .997       5744       .944       305       .100       560         .248       .976       2940       .468       779       .105       6102       .298       .998       087       .954       254								0.101 266
.243       .974       1225       .421       554       .106       1396       .293       .995       8372       .904       607       .100       963         .244       .974       5568       .430       980       .106       0335       .294       .996       2715       .914       517       .100       862         2.245       0.974       9911       9.440       416       0.105       9275       2.295       0.996       7058       9.924       436       0.100       761         .246       .975       4254       .449       861       .105       8217       .296       .997       1401       .934       365       .100       660         .247       .975       8597       .459       315       .105       7159       .297       .997       5744       .944       305       .100       560         .248       .976       2940       .468       779       .105       6102       .298       .998       087       .954       254       .100       459         .249       .976       7283       .478       253       .105       5047       .299       .998       4430       .964       213								
.244       .974       5568       .430       980       .106       0335       .294       .996       2715       .914       517       .100       862         2.245       0.974       9911       9.440       416       0.105       9275       2.295       0.996       7058       9.924       436       0.100       761         .246       .975       4254       .449       861       .105       8217       .296       .997       1401       .934       365       .100       660         .247       .975       8597       .459       315       .105       7159       .297       .997       5744       .944       305       .100       560         .248       .976       2940       .468       779       .105       6102       .298       .998       087       .954       254       .100       459         .249       .976       7283       .478       253       .105       5047       .299       .998       4430       .964       213       .100       359								
.246     .975     4254     .449     861     .105     8217     .296     .997     1401     .934     365     .100     660       .247     .975     8597     .459     315     .105     7159     .297     .997     5744     .944     305     .100     560       .248     .976     2940     .468     779     .105     6102     .298     .998     087     .954     254     .100     459       .249     .976     7283     .478     253     .105     5047     .299     .998     4430     .964     213     .100     359			.430 980					100 862
.246     .975     4254     .449     861     .105     8217     .296     .997     1401     .934     365     .100     660       .247     .975     8597     .459     315     .105     7159     .297     .997     5744     .944     305     .100     560       .248     .976     2940     .468     779     .105     6102     .298     .998     087     .954     254     .100     459       .249     .976     7283     .478     253     .105     5047     .299     .998     4430     .964     213     .100     359	2.245	0.074 0011	0.440 416	0.105 0275	2,205	0.006 7058	0.024 426	0 100 761
.247     .975     8597     .459     315     .105     7159     .297     .997     5744     .944     305     .100     560       .248     .976     2940     .468     779     .105     6102     .298     .998     0087     .954     254     .100     459       .249     .976     7283     .478     253     .105     5047     .299     .998     4430     .964     213     .100     359								
.248			-459 315	.105 7159				100 560
.249 .976 7283 .478 253 .105 5047 .299 .998 4430 .964 213 .100 359	.248	.976 2940	.468 779		.298	998 0087		.100 459
2.250   0.977 1626   9.487 736   0.105 3992   2.300   0.998 8773   9.974 182   0.100 258	.249	.976 7283		.105 5047	299	·998 4430	.964 213	100 359
	2.250	0.977 1626	9.487 736	0.105 3992	2.300	0.998 8773	9.974 182	0.100 258

u .	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	u	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
2 2/-	0.998 8773	0.074.10-	0.100 2588	2 250	T 020 5020	10.485 570	0.095 3692
2.300		9.974 182	~~~	2.350	1.020 5920 .021 0263	.496 061	.095 2738
.301	.999 3116	.984 162	100 1586	.35I	.021 0203	.506 562	.095 1786
.302	999 7459	.994 151	100 0585	352			.095 0835
.303 .304	1.000 1802 .000 6145	.014 150	.099 9585	•353 •354	.021 8949	.517 074 .527 596	.094 9884
2.305	1.001 0488	10.024 178	0.099 7588	2.355	1.022 7635	10.538 129	0.094 8935
.306	.001 4831	.034 207	.099 6591	.356	.023 1978	.548 672	.094 7987
.307	.001 9174	.044 247	099 5595	•357	.023 6321	.559 226	.094 7039
308	.002 3517	.054 296	.099 4600	358	.024 0664	.569 791	.094 6093
.309	.002 7860	<b>.0</b> 64 355	.099 3606	•359	.024 5007	.58o <u>3</u> 66	•094 5147
2.310	1.003 2203	10.074 425	0.099 2613	2.360	1.024 9350	10.590 951	0.094 4202
.311	.003 6545	.084 504	.099 1620	•361	.025 3693	.601 548	.094 3259
.312	.004 0888	.094 594	.099 0629	.362	.025 8036	.612 155	.094 2316
.313	.004 5231	.104 693	.098 9639	•363	.026 2379	.622 772	094 1374
.314	.004 9574	.114 803	.098 8650	364	.026 6722	.633 400	.094 0433
2.315	1.005 3917	10.124 923		2.365	1.027 1064	10.644 039	0.093 9493
.316	.005 8260	135 053	.098 6675	<b>.3</b> 66	.027 5407	.654 688	.093 8554
.317	.006 2603	.145 193	.098 5688	•367	.027 9750	.665 348	.003 7616
.318	.006 6946	.155 343	.098 4703	.368	.028 4093	.676 019	.093 6679
.319	.007 1289	.165 <b>56</b> 4	.098 3719	.369	.028 8436	.686 700	.093 5743
2.320	1.007 5632	10.175 674	0.098 2736	2.370	1.029 2779	10,697 392	0.093 4807
.321	.007 9975	. 185 855	.098 1754	·37I	.029 7122	.708 095	093 3873
.322	.008 4318	106 MG	.098 0772	.372	.030 1465	.718 808	.093 2940
.323	.008 8661	.206 117 .216	DARTAGE	373	.030 5808	·729 533	.093 2007
.324	.009 3004	.210	RIESE	373    374	7 1034 OI51	.740 268	.093 1076
2.325	1.009 7347	10.226 680	0.097 7834	2.375	1.031 4494	10.751, 918	000 045 000 0215 .092 8286
.326	.010 1690	.236 912	.097 6857	376	.031 8837	.701° 770	w.D02 0215
.327	.010 6033	.247 154	.097 5881	377	.032_3180	.772 537 .783 315	.092 8280
.328 .329	.011 0376	.257 406	997-4005 997-3031	•378 •379	.032 7523	783 315 794 103	.092 7359 .092 6432
				of a same of the		10.804 903	
2.330	1.011 9061	10.277 942	0.097 2957	2.380	1.033 6209		0.092 5506
.331	.012 3404	.200 225	.097 1985	.381	.034 0552	.815 713 826 524	.092 4581
.332	.012 7747	.308 822	.097 1014	.382	.034 4895	.826 534	.092 3657
•333 •334	.013 2090 .013 6433	.319 136	.096 9073	.383 .384	.034 9238	.837 366 .848 209	.092 2733
	1.014 0776	10.329 460		2.385	1.035 7923	10.859 063	
2.335 .336	.014 5119	339 795	.096 7137	.386	.036 2266	.869 927	.091 9969
337	.014 9462	.350 140	.096 6171	.387	.036 6609	.880 803	.091 9050
.338	.015 3805	360 495	.096 5205	.388	.037 0952	.991 689	.091 9030
•339	.015 8148	.370 861	.096 4240	.389	.037 5295	.902 586	.091 7214
2.340	1.016 2491	10.381 237	0.096 3276	2.390	1.037 9638	10.913 494	6.091 6297
.341	.016 6834	.391 623	.096 2314	.391	h 6	.924 413	
.342	.017 1177	.402 020	.096 1352	392	.038 8324	935 343	.091 4466
•343	.017 5520	.412 427	.096 0391	393	.039 2667	.946 284	.091 3552
•344	.017 9863	.422 845	.095 9431	•394	.039 7010	957 235	.091 2639
2.345	1,018 4206	10.433 273	0.095 8472	2.395	1.040 1353	10.968 198	0.091 1727
.346	.018 8549	.443 711	.095 7514	.396	.040 5696	.979 172	.091 0816
•347	.019 2891	.454 160	.095 6557	•397	.041 0039	.990 156	.090 9905
.348 •349	.019 7234 .020 1577	.464 620 .475 089	.095 5601 .095 4646	.398 .399	.041 4382	.012 150	.090 8996 .090 8087
2.350	1.020 5920	10.485 570	0.095 3692	2.400	1.042 3068	11.023 176	0.090 7180
log (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log (s <sup>u</sup> )	log. (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-1</sup>
og <sub>e</sub> (e <sup>u</sup> )	10g10(e )	· • •	l a	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	8"	8

Mark II A			The Exp	onential			
		l _	The state of the s		alpi (beni alike tere) fishi Trive i	s - applica and personal	
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>
2.400	1.042 3068	11.023 176	0.090 7180	2.450	1.064 0215	11.588 347	0.086 2936
.401	.042 7411	.034 205	.090 6273	.451	.064 4558	599 941	.086 2073
.402	.043 1753	045 245	.090 5367	452	.064 8901	.611 547	.086 1212
.403	.043 6096	.056 296	090 4462	•453	065 3244	.623 164	.086 0351
•404	•044 0439	.067 357	.090 3558	•454	.065 7587	634 793	.085 9491
2.405	1.044 4782	11.078 430	0.090 2655	2.455	1.066 1930	11.646 434	0.085 8632
.406	.044 9125	.089 514	.090 1753	.456	.066 6272	.658 086	.085 7774
.407	.045 3468	.100 609	.090 0851	•457	.067 0615	.669 750	.085 6916
.408 .409	.045 7811	.111 715	.089 9951 .089 9052	•458 •459	.067 4958	.681 425 .693 113	.085 6060
	}						
2.4I0 .4II	1.046 6497 .047 0840	11.133 961	0.089 8153	<b>2.</b> 460 .461	1.068 3644 .068 7987	11.704 812 .716 522	0.085 4350 .085 3496
.411	.047 0040	.145 101	.089 6358	.461 .462	.069 2330	.710 522	.085 2643
.413	047 9526	.167 413	.089 5463	.463	.069 6673	739 979	.085 1790
.414	.048 3869	.178 586	.089 4568	464	.070 1016	·751 725	.085 0939
2.415	1.048 8212	11.189 770	0.089 3673	2.465	1.070 5359	11.763 482	0.085 0088
.416	.049 2555	.200 966	.089 2780	.466	.070 9702	.775 252	.084 9239
.417	.049 6898	.212 172	.089 1888	.467	.071 4045	.787 o33	.084 8390
.418	.050 1241	.223 390	.089 0996	.468	.071 8388	.798 826	.084 7542
.419	.050 5584	.234 619	.089 0106	.469	.072 2731	.810 630	.084 6695
2.420	1.050 9926	11.245 859	0.088 9216	2.470	1.072 7074	11.822 447	0.084 5849
.421	.051 4269	.257 111	.088 8327	·47I	.073 1417	.834 275	.084 5003
.422	.051 8612	.268 374	.088 7440	•472	.073 5760	.846 115	.084 4159
.423	052 2955	.279 648	.088 6553	•473	.074 0103	.857 967	.084 3315
. 424	.052 7298	.290 933	.088 5666	•474	1074 4445	.869 831	.084 2472
2.425	1.053 1641	11.302 229	0.088 4781	2.475	1.074 8788	11.881 707	0.084 1630
.426	.053 5984	•313 537	.088 3897	.476	.075 3131	.893 595	.084 0789
.427	.054 0327	.324 857	.088 3013	•477	•075 7474	.905 494	.083 9948
.428	054 4670	.336 187	.088 2131	.478	.076 1817	917 406	.083 9109
.429	.054 9013	•347 529	.088 1249	•479	.070 0100	.929 329	.003 02/0
2.430	1.055 3356	11.358 882	0.088 0368	2.480	1.077 0503	11.941 264	0.083 7432
.431	.055 7699	•370 247	.087 9488	.481	.077 4846	.953 212	.083 6595
.432	.056 2042	.381 623	087 8609	.482	.077 9189	.965 171	.083 5759
•433 •434	.056 6385	.393 010 .404 409	.087 7731 .087 6854	.483 .484	.078 3532	.977 142 .989 125	.083 4924
2.435	1.057 5071	11.415 819	0.087 5977	2.485	1.079 2218	12.001 120	0.083 3256
.436	.057 9414	.427 240	.087 5102	.486	.079 6561	.013 127	.083 2423
·437 ·438	058 3757	.438 673 .450 118	.087 3353	.487 .488	.080 0904	.025 147 .037 178	.083 1591 .083 0760
·439	.059 2442	.461 573	.087 2481	.489	.080 9590	.049 221	.082 9929
2.440	1.059 6785	11.473 041	0.087 1609	2.490	1.081 3933	12.061 276	0.082 9100
2.440 .44I	.060 1128	.484 520	.087 0737	.49I	.081 8276	073 343	.082 8271
.442	.060 5471	.496 010	.086 9867	.492	.082 2618	085 423	.082 7443
•443	.060 9814	.507 512	.086 8998	•493	.082 6961	.097 514	.082 6616
•444	.061 4157	.519 025	.086 8129	•494	.083 1304	.109 618	.082 5790
2.445	1.061 8500	11.530 550	0.086 7261	2.495	1.083 5647	12.121 734	0.082 4965
.446	.062 2843	.542 086	.086 6395	.496	.083 9990	.133 861	.082 4140
•447	.062 7186	.553 634	.086 5529	497	.084 4333	.146 001	.082 3316
•448 •449	.063 1529	.565 193 .576 764	.086 4663 .086 3799	.498 .499	.084 8676 .085 3019	.158 153 .170 318	.082 2493 .082 1671
2.450	1.064 0215	11.588 347	0.086 2936	2.500	1.085 7362	12.182 494	0.082 0850
loge(e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	log₀(e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>

			The Exp	onential	and design of the season of th	eu ferrotain par their europe <mark>Be</mark> neur Port the organization (Person	เมษายนคน (เมษายนคน แนะค่อ พ.ศ. 45 (1575 1117) (รัฐบาร์สมคับ 111
u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	6 <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е-ч
2.500 .50I	1.085 7362 .086 1705	12.182 494 .194 683	0.082 0850	2.550	1.107 4509	12.807 104 .819 917	0.078 0817
.502	.086 6048	.206 883	.081 9210	.551 .552	.108 3195	.832 744	.078 0036 .077 9257
503	.087 0391	.219 096	.081 8391	•553	.108 7538	.845 583	077 8478
.504	.087 4734	.231 322	.081 7573	•554	109 1881	.858 435	.077 7700
2.505	1.087 9077 .088 3420	12.243 559 .255 809	0.081 6756 .081 5940	2.555	1.109 6224	12.871 300	0.077 6922
.506 .507	.088 7763	.268 071	.081 5124	.556	.110 0567	.884 177 .897 068	.077 6146
.508	.089 2106	.280 345	.081 4309	•557 •558	.110 4910	.909 972	.077 5370 .077 4595
.509	.089 6449	.292 631	.081 3495	•559	111 3596	.922 888	.077 3821
2.510	1.090 0791	12.304 930	0.081 2682	2.560	1.111 7939	12.935 817	0.077 3047
.511	.090 5134	.317 241	.081 1870	.561	.112 2282	.948 760	.077 2275
.512	.090 94 <i>77</i> .091 3820	.329 565	.081 1059	.562	.112 6625	.961 715	.077 1503
•513 •514	.091 8163	.341 900 .354 248	.080 9438	. 563 . 564	.113 0968	.974 683 .987 664	.077 0732
2.515	1.092 2506	12.366 609	0 080 8629	2.565	1.113 9653	13.000 658	0.076 9192
.516	.092 6849	.378 982	.080 7821	.566	.114 3996	.013 666	.076 8423
.517 .518	.093 1192	.391 367 .403 764	.080 7013 .080 6207	. 567 . 568	.114 8339	.026 686	.076 7655
.519	.093 9878	.416 174	080 5401	.569	.115 2682	.039 719 .052 765	.076 6888 .076 6121
2.520	1.094 4221	12.428 597	0.080 4596	2.570	1.116 1368	13.065 824	0.076 5355
.521	.094 8564	.441 032	.080 3792	·571	.116 5711	.078 897	.076 4590
522	.095 2907	•453 479	.084 2988	.572	.117 0054	.091 982	.076 3826
.523 .524	.095 7250	.465 938 .478 411	.080 2186 .080 1384	•573 •574	.117 4397 .117 8740	.105 081 .118 192	.076 3063 .076 2300
2.525	1.096 5936	12.490 895	0.080 0583	2.575	1.118 3083	13.131 317	0.076 1538
.526	.097 0279	.503 392	.079 9783	• 576	.118 7426	144 455	.076 0777
.527	.097 4622	.515 902	.079 8984	•577	.119 1769	.157 606	.076 0017
.528 .529	.097 8965	.528 424 .540 959	.079 8185 .079 7387	. 578 . 579	.119 6112	.170 770 .183 948	.075 9257 .075 8498
2.530	1.098 7650	12.553 506	0.079 6590	2.580	1.120 4798	13.197 138	0.075 7740
.531	.099 1993	.566 066	• <b>07</b> 9 <b>57</b> 94	.581	.120 9141	.210 342	.075 6983
.532	.099 6336	.578 638	.079 4999	.582	.121 3484	.223 559	.075 6226
·533 ·534	.100 0679 .100 5022	.591 223 .603 821	.079 4204 :079 3410	· 583 · 584	.121 7826 .122 2169	.236 789 .250 032	.075 5470 .075 4715
2.535	1.100 9365	12.616 431	0.079 2617	2.585	1.122 6512	13.263 289	0.075 3961
.536	.101 3708	.629 054	.079 1825	. 586	.123 0855	.276 559	.075 3207
•537	.101 8051	.641 689	.079 1034	.587	.123 5198	.289 842	.075 2454
.538 .539	.102 2394 .102 6737	.654 337 .666 998	.079 0243 .078 9453	. 588 . 589	.123 9541 .124 3884	.303 139 .316 449	.075 1702
2.540	1.103 1080	12.679 671	0.078 8664	2.590	1.124 8227	13.329 772	0.075 0200
.541	.103 5423	.692 357	.078 7876	.591	.125 2570	.343 108	.074 9451
.542	.103 9766	.705 056	078 7088	.592	.125 6913	.356 458	.074 8701
•543 •544	.104 4109	.717 767 .730 491	.078 6302 .078 5516	· 593 · 594	.126 1256 .126 5599	383 198	.074 7953 .074 7206
2.545	I.105 2795	12.743 228	0.078 4731	2.595	1.126 9942	13.396 587	0.074 6459
.546	.105 7138	.755 978	.078 3946	. 596	.127 4285	.409 991	.074 5713
•547	.106 1480	.768 740	.078 3163	597	.127 8628	.423 407	.074 4967
.548 .549	.106 5823 .107 0166	.781 515 .794 303	.078 2380 .078 1598	. 598 . 599	.128 2971 .128 7314	.436 838 .450 281	.074 4223 .074 3479
2.550	1.107 4509	12.807 104	0.078 0817	2.600	1.129 1657	13.463 738	0.074 2736
og <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>tt</sup>	e <sup>-u</sup>

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u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	· e <sup>ŭ</sup>	e <sup>—u</sup>
2,600	1.129 1657	13.463 738	0.074 2736	2.650	1.150 8804	14.154 039	0.070 6512
.601	.129 5999	.477 208	.074 1993	.651	.151 3147	.168 200	.070 5806
.602	.130 0342	.490 692	.074 1252	.652	.151 7490	.182 375	.070 5101
.603 .604	.130 4685	.504 190 .517 701	.074 05II .073 977I	.653 .654	.152 1833 .152 6176	.196 565 .210 768	.070 4390
2.605	1.131 3371	13.531 225	0.073 9031	2.655	1.153 0518	14.224 986	0.070 2988
.606	.131 7714	544 763	.073 8293	.656	.153 4861	.239 218	.070 2286
.607	.132 2057	.558 315	•073 7555	.657	.153 9204	.253 464	.070 1584
.608	.132 6400	.571 880	.073 6818	.658	•154 3547	.267 725	.070 0883
.609	.133 0743	.585 459	.073 6081	.659	.154 7890	.282 000	.070 0182
2.610	1.133 5086	13.599 051	0.073 5345	2.660	1.155 2233	14.296 289	.0.069 9482 .069 8783
.611	.133 9429	.612 657 .626 276	.073 4610 .073 3876	.661 .662	.155 6576 .156 <b>0</b> 919	.310 593 .324 910	.009 808
613	.134 3772 .134 8115	.639 909	.073 3143	.663	156 5262	.339 242	.069 7387
.614	.135 2458	.653 556	.073 2410	.664	.156 9605	353 589	.069 6690
2.615	1.135 6801	13.667 216	0.073 1678	2.665	1.157 3948	14.367 950	0.069 5994
.616	.136 1144	.680 890	.073 0947	.666	.157 8291	.382 325	.069 5298
.617	.136 5487	.694 578	.073 0216	.667	.158 2634	.396 714	.069 4603
.618 .619	.136 9830 .137 4172	.708 280 .721 995	.072 9486 .072 8757	.668 .669	.158 6977 .159 1320	.411 118	.069 3909
2.620	1.137 8515	13.735 724	0.072 8029	2.670	1.159 5663	14.439 969	0.069 2522
.621	.138 2858	.749 466	.072 7301	.671	.160 0006	.454 416	.069 1830
.622	.138 7201	.763 222	.072 6574	.672	.160 4349	.468 878	.069 1139
.623 .624	.139 1544 .139 5887	.776 993 .790 776	.072 5848 .072 5122	.673 .674	.160 8692 .161 3034	.483 354 .497 845	.069 0448
2.625	1.140 0230	13.804 574	0.072 4398	2.675	1.161 7377		0.068 9068
.626	.140 0230	.818 386	.072 3674	.676	.162 1720	14.512 350 .526 869	.068 8380
.627	.140 8916	.832 211	.072 2950	.677	.162 6063	.541 404	.068 7692
.628	.141 3259	.846 <b>o</b> 50	.072 2228	.678	163 0406	555 952	.068 7004
.629	.141 7602	.859 903	.072 1506	.679	163 4749	.570 515	.068 6318
<b>2.</b> 630	1.142 1945	13.873 770	0.072 0785	2.680	1.163 9092	14.585 093	0.068 5632
.631 .632	.142 6288 .143 0631	.887 651 .901 545	.072 0064 .071 9344	.681 .682	.164 3435 .164 7778	.599 686 .614 293	.068 4946
.633	143 4974	.915 454	.071 8626	.683	.165 2121	.628 914	.068 3578
.634	.143 9317	.929 376	.071 7907	.684	.165 6464	.643 550	.068 2892
2.635	1.144 3660	13.943 312	0.071 7190	2.685	1.166 0807	14.658 201	0.068 2212
,636	.144 8003	.957 263	.071 6473	.686	.166 5150	.672 867	.068 1530
.637	.145 2345	.971 227	.071 5757 .071 5041	.687 .688	. 166 9493	.687 547 .702 242	.068 0849 .068 0168
.638 .6 <b>3</b> 9	.145 6688 .146 1031	.999 197	.071 4327	.689	.167 3836 .167 8179	.716 952	.067 9489
2.640	1.146 5374		0.071 3613	2.690	1.168 2522	14.731 676	0.067 8800
.641	.146 9717	.027 224	.071 2899	.691	.168 6865	.746 415	.067 8131
.642	.147 4060	.041 258	.071 2187	.692	.169 1207	.761 169	.067 7453
.643 .644	.147 8403 .148 2746	.055 306	.071 1475 .071 0764	.693 .694	.169 5550 .169 9893	.775 937 .790 721	.067 6770 .067 6100
2.645	1.148 7089	14.083 445	0.071 0054	2.695	1.170 4236	14.805 519	0.067 5424
.646	.149 1432	.097 536	.070 9344	.696	170 8579	.820 332	067 4749
.647	.149 5775	.111 640	.070 8635	.697	.171 2922	.835 f59	.067 4074
.648 .649	.150 0118 .150 4461	.125 759	.070 7927 .070 7219	.698	.171 7265 .172 1608	.850 002 .864 859	.067 340
2.650	1.150 8804	14.154 039	0.070 6512	2.700	1.172 5951	14.879 732	0.067 205
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>tt</sup> )	e <sup>u</sup>	e <sup>-u</sup>

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			THE EXT	Mientia	istracina espe		and the second s
u	log <sub>10</sub> (e <sup>11</sup> )	eu	e <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
2.700	1.172 5951	14.879 732	0.067 2055	2.750	1.194 3098	15.642 632	0.063 9279
701	.173 0294	.894 619	.067 1383	.751	194 7441	.658 282	.063 8640
702	.173 4637	.909 521	.067 0712	.752	195 1784	.673 948	.063 8001
.703	.173 8980	.924 438	.067 0042	•753	.195 6127	689 630	.063 7364
,704	174 3323	939 370	.066 9372	•754	.196 0470	.705 328	.063 6727
2.705	1.174 7666	14.954 317	0.066 8703	2.755	1.196 4813	15.721 041	0.063 6090
706	.175 2009	.969 278	.066 8035	.756	.196 9156	.736 770	.063 5454
•707	.175 6352	.984 255	.066 7367	•757	197 3499	.752 514	.063 4819
•708	.176 0695	.999 247	.066 6700	.758	.197 7842	.768 275	.063 4185
•709	.176 5038	15.014 254	.066 6039	·759	.198 2185	.784 051	.063 3551
2.710	1.176 9380	15.029 275	0.066 5368	2.760	1.198 6528	15.799 843	0.063 2918
.711	177 3723	.044 312	.066 4703	.761	199 0871	.815 651	.063 2285
.712	.177 8066	.059 364	.066 4039	.762	.199 5214	.831 474	.063 1653
•713 •714	.178 2409 .178 6752	.074 431	.066 3375 .066 2712	.763 .764	.199 9557	.847 314	.063 1022
•/-4	.170 0/32		_		.200 3099	.863 169	.063 0391
2.715	1.179 1095	15.104 610	0.066 2050	2.765	1.200 8242	15.879 040	0.062 9761
.716	179 5438	.119 722	.066 1388	.766	.201 2585	.894 927	.062 9132
•717	.179 9781	.134 850	.066 0727	.767	.201 6928	.910 830	.062 8503
.718	.180 4124 .180 8467	.149 992 .165 149	.066 0066 .065 9407	.768	.202 1271	.926 749	.062 7875
•719	.160 6407		.005 9407	.769	.202 5614	.942 683	.062 7247
2.720	1.181 2810	15.180 322	0.065 8748	2.770	1.202 9957	15.958 634	0.062 6620
.721	.181 7153	.195 510	.065 8089	.771	.203 4300	.974 601	.062 5994
.722	.182 1496	.210 713	.065 7431	.772	203 8643	.990 583	.062 5368
•723	182 5839	.225 932	065 6774	·773	204 2986	16.006 582	.062 4743
.724	.183 0182	.241 165	.065 6118	•774	.204 7329	.022 596	.062 4119
2.725	1.183 4525	15.256 414	0.065 5462	2.775	1.205 1672	16.038 627	0.062 3495
.726	.183 8868	.271 678	065 4807	.776	.205 6015	.054 674	.062 2872
•727	.184 3211	.286 957	.065 4152	•777	.206 0358	.070 736	.062 2249
.728	.184 7553	.302 252	.065 3499	.778	206 4701	.086 815	.062 1627
.729	.185 1896	.317 562	.065 2845	· <i>77</i> 9	.206 9044	102 910	.062 1006
2.730	1.185 6239	15.332 887	0.065 2193	2.780	1.207 3387	16.119 021	0.062 0385
•73I	.186 0582	.348 228	.065 1541	.781	.207 7730	.135 148	.061 9765
•732	.186 4925	.363 583	.065 0890	.782	.208 2072	.151 291	.061 9146
•733	186 9268	·378 955	.065 0239	.783	.208 6415	.167 451	.061 8527
•734	.187 3611	.394 341	.064 9589	.784	.209 0758	. 183 626	.061 7908
2.735	1.187 7954	15.409 743	0.064 8940	2.785	1.209 5101	16.199 818	0.061 7291
.736	.188 2297	.425 161	.064 8291	. <i>7</i> 86	.209 9444	.216 026	.061 6674
•737	.188 6640	440 594	.064 7643	.787	.210 3787	.232 250	.061 6058
.738	.189 0983 .189 5326	.456 042 .471 506	.064 6996 .064 6349	788	.210 8130	.248 490	.061 5442
•739	.109 5320		.004 0349	.789	.211 2473	.264 747	.061 4827
2.740	1.189 9669	15.486 985	0.064 5703	2.790	1.211 6816	16.281 020	0.061 4212
•741	.190 4012	.502 480	.064 5058	. <i>7</i> 91	.212 1159	.297 309	.061 3598
.742	.190 8355	.517 990	.064 4413	.792	.212 5502	.313 614	.061 2985
•743	101 2698	.533 516	.064 3769 .064 3126	•793	.212 9845	329 936	.061 2372
•744	.191 <i>7</i> 041	.549 057		•794	.213 4188	.346 274	.061 1760
2.745	1.192 1384	15.564 614	0.064 2483	2.795	1.213 8531	16.362 629	0.061 1149
.746	.192 5726	.580 186	.064 1841	.796	.214 2874	.379 000	.061 0538
•747	.193 0069	•595 774	.064 1199	•797	.214 7217	.395 387	.060 9928
•748 •749	.193 4412 .193 8755	.611 378 .626 997	.064 0558 .063 9918	.798 .799	.215 1560 .215 5903	.411 790 .428 210	.060 9318 .060 8709
2.750	1.194 3098	15.642 632	_	2.800	1.216 0245	16.444 647	0.060 8101
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	iog <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>a</sup>	e <sup>-u</sup>
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. Comercia de la colonia de la francia de la comercia del la comercia de la comercia de la comercia del la comercia del la comercia de la comercia de la comercia de la comercia de la comercia de la comercia del la comer

2.800 .801 .802 .803 .804 2.805 .806 .807	1.216 0245 .216 4588 .216 8931 .217 3274 .217 7617 1.218 1960 .218 6303	e <sup>u</sup> 16.444 647 .461 100 .477 569 .494 055 .510 557	e <sup>-u</sup> o.o6o 8101  o.o6o 7493  o.o6o 6886  o.o6o 6279	2.850	log 10 (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
.801 .802 .803 .804 2.805 .806 .807	.216 4588 .216 8931 .217 3274 .217 7617	.461 100 .477 569 .494 055	.060 7493 .060 6886			. "	
.802 .803 .804 2.805 .806 .807	.216 8931 .217 3274 .217 7617	.477 569 .494 055	.o6o 6886	0	1.237 7393	17.287 782	0.057 844
.803 .804 2.805 .806 .807	.217 3274 .217 7617 1.218 1960	494 055		.851	.238 1736	.305 078	.057 786
.804 2.805 .806 .807	.217 7617 1.218 1960			.852	.238 6079	.322 392	.057 728
2.805 .806 .807	1.218 1960	.510 557		-853	.239 0422	•339 723	.057 6710
.806 .807			.060 5673	.854	.239 4765	.357 071	.057 613
807	.218 6303	16.527 076	0.060 5068	2.855	1.239 9107	17.374 437	0.057 5558
		.543 611	.060 4463	.856	.240 3450	.391 820	.057 498
	.219 0646	.560 163	.060 3859	.857	.240 7793	.409 221	.057 440
.808	.219 4989	.576 732	.060 3255	.858	.241 2136	.426 639	.057 3834
.809	.219 9332	•593 317	.060 2652	.859	.241 6479	444 074	.057 326
2.810	1.220 3675	16.609 918	0.060 2050	2.860	1.242 0822	17.461 527	0.057 268
.811	.220 8018	.626 536	.060 1448	.861	.242 5165	.478 997	.057 211
.812	.221 2361	.643 171	.060 0847	.862	.242 9508	.496 485	.057 154,
.813	.221 6704	.659 823	.060 0246	.863	243 3851	.513 990	.057 097
.814	.222 1047	.676 491	.059 9647	.864	.243 8194	.531 513	.057 040
2.815	1.222 5390	16.693 176	0.059 9047	2.865	1.244 2537	17.549 053	0.056 983
.816	.222 9733	.709 877	.059 8448	.866	.244 6880	.566 611	.056 926
.817	.223 4076	.726 596	.059 7850	.867	.245 1223	.584 186	.056 869,
818	.223 8418	•743 331	.059 7253	.868	.245 5566	.601 779	.056 812
,819	.224 2761	.760 082	.059 6656	.869	245 9909	.619 390	.056 755
2.820	1.224 7104	16. <i>77</i> 6 851	0.059 6059	2.870	1.246 4252	17.637 018	0.056 698
.821	.225 1447	.793 636	059 5464	.871	.246 8595	.654 664	.056 642
.822	.225 5790	.810 438	.059 4868	.872	.247 2938	.672 328	.056 5856
.823	.226 0133	.827 257	.059 4274	.873	.247 7280	.690 009	.056 529
.824	.226 4476	.844 092	.059 3680	.874	.248 1623	.707 708	.056 472
2.825	1.226 8819	16.860 945	0.059 3087	2.875	1.248 5966	17.725 424	0.056 416
826	.227 3162	.877 814	.059 2494	.876	.249 0309	.743 158	.056 359
.827	.227 7505	.894 <i>7</i> 01	.059 1902	.877	.249 4652	.760 910	.056 303.
.828	.228 1848	.911 604	.059 1310	.878	.249 8995	.778 680	.056 247
.829	.228 6191	.928 524	.059 0719	.879	.250 3338	.796 468	.056 190
2.830	1.229 0534	16.945 461	0.059 0129	2.880	1.250 7681	17.814 273	0.056 134
.831	.229 4877	.962 415	.058 9539	.881	.251 2024	832 096	.056 078
.832	.229 9220	.979 386	.058 8949	.882	.251 6367	.849 937	.056 022
.833	.230 3563	996 374	.058 8361	.883	.252 0710	867 796	.055 9660
.834	.230 7906	17.013 378	.058 7773	.884	.252 5053	.885 673	.055 910
2.835	1.231 2249	17.030 400	0.058 7185	2.885	1.252 9396	17.903 568	0.055 854
•836	.231 6592	.047 439	.058 6598	.886	253 3739	.921 480	.055 799
.837	.232 0934	.064 495	.058 6012	.887	.253 8082	.939 411	.055 743
838	.232 5277	.081 568	.058 5426	.888	.254 2425	•957 359	.055 687
.839	.232 9620	.098 658	.058 4841	.889	.254 6768	•975 325	.055 631
2.840	1.233 3963	17.115 766	0.058 4257	2.890	1.255 1111	17.993 310	0.055 576
.841	.233 8306	132 890	.058 3673	.891	.255 5453	18.011 312	.055 520
.842	.234 2649	.150 031	.058 3089	.892	.255 9796	.029 332	.055 465
843	.234 6992	.167 190	.058 2507	.893	.256 4139	.047 371	.055 409
<b>.</b> 844	.235 1335	.184 366	.058 1924	.894	.256 8482	.065 427	.055 354
2.845	1.235 5678	17.201 559	0.058 1343	2.895	1.257 2825	18.083 501	0.055 299
.846	.236 0021	.218 769	.058 0762	.896	.257 7168	.101 594	.055 243
847	236 4364	.235 996	.058 0181	.897	258 1511	119 705	.055 188
.848 .849	.236 8707	253 241	.057 9601	.898 .899	.258 5854	.137 833	.055 133
	.237 3050	.270 503	.057 9022		.259 0197	_	.055 078
2.850	1.237 7393	17.287 782	0.057 8443	2.900	1.259 4540	18.174 145	0.055 023
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>

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u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>	u .	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e-u
2.900	1.259 4540	18.174 145		2.950	1.281 1687	19.105 954	0.052 3397
.901 .902	.259 8883	.192 329	.054 9682	951	.281 6030 .282 0373	125 069	.052 2874
903	.260 7569	.210 530 .228 750	.054 9133 .054 8584	.952 .953	.282 4716	.144 204 .163 358	.052 2351
.904	.261 1912	.246 988	.054 8036	∙954	.282 9059	.182 531	.052 1308
2.905 .906	1.261 6255 .262 0598	18.265 244 .283 518	0.054 7488 .054 6941	2.955 .956	1.283 3402 .283 7745	19.201 723 .220 934	0.052 0787
.907	.262 4941	.301 811	.054 6394	•957	.284 2088	.240 165	.051 9746
.908	.262 9284 .263 3626	.320 122 .338 451	.054 5848 .051 5302	.958 .959	.284 6431 .285 0774	.259 414 .278 683	.051 9227 .051 8708
2.910	1.263 7969	18.356 799	0.054 4757	2.960	1.285 5117	19.297 972	0.051 8189
.911 .912	.264 2312 .264 6655	.375 165 .393 549	.054 4213 .054 3669	.961 .962	.285 9460 .286 3803	.317 279 .336 606	.051 7671 .051 7154
.913	265 0998	411 952	.054 3125	.963	.286 8145	•355 953	.051 6637
.914	.265 5341	.430 373	.054 2583	.964	.287 2488	.375 318	.051 6121
2.915 .916	1.265 9684 .266 4027	18.448 812 .467 270	0.054 2040 .054 1499	2.965 .966	1.287 6831 .288 1174	19.394 703 .414 108	0.051 5605
.917	.266 8370	.485 747	.054 0957	.967	.288 5517	·433 531	.051 4575
.918 .919	.267 2713 .267 7056	.504 242 .522 755	.054 0417 .053 9876	.968	.288 9860 .289 4203	·452 975	.051 4060
2.920	1.268 1399	18.541 287	0.053 9337	2.970	1.289 8546	.472 437 19.491 920	.051 3546 0.051 3033
.921	.268 5742	559 838	.053 8798	.971	.290 2889	.511 421	.051 2520
.922	.269 0085	.578 407	.053 8259	.972	290 7232	.530 942	.051 2008
.92 <b>3</b> .924	.269 4428 .269 8771	.596 995 .615 601	.053 7721	·973 ·974	.291 1575 .291 5918	•550 483 •570 043	.051 1496
2.925	1.270 3114	18.634 <i>22</i> 6 .652 870	0.053 6647	2.975	1.292 0261	19.589 623	0.051 0474
.926 .927	.270 7457 .271 1799⊹	.671 532	.053 6111	.976 •977	.292 4604	.609 223 .628 842	.050 9964 .050 9454
928	.271 6142	.690 213	.053 5039	.978	.293 3290	.648 480	.050 8945
.929	.272 0485	.708 912	.053 4505	•979	.293 7633	.668 139	050 8437
2.930 .931	1.272 4828	18.727 631 .746 368	0.053 3970 .053 3437	2.980 .981	1.294 1976 .294 6319	19.687 817 .707 514	0.050 7928
.932	.273 3514	.765 123	.053 2904	982	.295 0661	.727 232	.050 6913
.933 .934	.273 7857 .274 2200	.783 898 .802 691	.053 2371 .053 1839	.983 .984	.295 5004 .295 9347	.746 969 .766 726	.050 6407
2.935	1.274 6543	18.821 503	0.053 1307	2.985	1.296 3690	19.786 502	0.050 5395
.936	.275 0886	.840 334	.053 0776	.986	.296 8033	.806 299	.050 4890
.937 .938	.275 5229 .275 9572	.859 184 .878 052	.053 0246	.987 .988	297 2376	.826 115	.050 4385
.939	.276 3915	.896 940	.052 9186	.989	.297 6719 .298 1062	.845 951 .865 807	.050 3881
2.940	1.276 8258	18.915 846		2.990	.1.298 5405	19.885 682	0.050 2874
.941	.277 260I	.934 772 .953 716	.052 8129	.991	.298 9748	.905 578	.050 2372
.942 .943	.277 6944 .278 1287	.972 679	.052 7601 .052 7074	.992 .993	.299 4091 .299 8434	.925 494 .945 429	.050 1870 .050 1368
•944	.278 5630	.991 661	.052 6547	•994	.300 2777	.965 385	.050 0867
2.945	1.278 9972	19.010 662	0.052 6021	2.995	1.300 7120	19.985 360	0.050 0366
.946 .947	.279 4315 .279 8658	.029 683	.052 5495 .052 4970	.996 .997	.301 1463 .301 5806	20.005 355 .025 371	.049 9866 .049 9367
.948	.280 3001	.067 780	.052 4445	.998	,302 0149	045 400	.049 8867
.949	.280 7344	.086 857	.052 3921	.999	.302 4492	.065 461	.049 8369
2.950	1.281 1687	19.105 954	0.052 3397	3.000	1.302 8834	20.085 537	0.049 7871
log <sub>e</sub> (e <sup>u</sup> )	- log <sub>10</sub> (e <sup>tt</sup> )	e <sup>u</sup>	e <sup>—u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e-u

		n			Tw. 2 - 100	,	
u	log <sub>10</sub> (e <sup>u</sup> )	eu	e <sup>—u</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
3.00	1.302 8834	20.085 537	<b>0.</b> 049 <b>7</b> 871	3.50	1.520 0307	33.115 452	0.030 1974
.01	.307 2264	.287 400	.049 2917	•51	.524 3736	.448 268	.029 8969
.02	.311 5693	.491 292	.048 8012	.52	528 7166	.784 429	.029 5994
.03	.315 9123	.697 233	.048 3156	•53	·533 <b>°</b> 595	34.123 968	.029 3049 .
•04	.320 2552	.905 243	.047 8349	•54	537 4025	.466 919	.029 0133
3.05	1.324 5982	21.115 344	0.047 3589	3.55	1.541 7454	34.813 318	0.028 7246
.06	.328 9411	•327 557	.046 8877	.56	.546 0884	35.163 197	.028 4388
.07	.333 2841	.541 903	.046 4212	•57	.550 4313	.516 593	.028 1559
.08	.337 6270	.758 402	.045 9593	.58	.554 7742	.873 541	.027 8757
.09	.341 9699	977 078	.045 5020	•59	.559 1172	36.234 076	.027 5983
3.10	1.346 3129	22.197 951	0.045 0492	3.60	1.563 4601	36.598 235	0.027 3237
.II	.350 6558	.421 044	044 6010	.61 .62	.567 8031	.966 053	.027 0518 .026 7827
.12	.354 9988 .359 3417	.646 380 .873 980	.044 1572 .043 7178	.63	.572 1460 .576 4890	37 337 568 .712 817	.026 5162
.14	.363 6847	23.103 867	.043 2828	.64	.580 8319	38.091 837	.026 2523
3.15	1.368 0276	23.336 065	0.042 8521	3.65	1.585 1749	38.474 666	0.025 9911
.16	.372 3706	.570 596	.042 4257	.66	589 5178	.861 343	.025 7325
.17	.376 7135	.807 484	.042 0036	.67	.593 8607	39.251 906	.025 4765
.18	.381 0565	24.046 754	041 5857	.68	.598 2037	.646 394	.025 2230
.19	.385 3994	.288 427	.041 1719	.69	.602 5466	40.044 847	.024 9720
3.20	1.389 7423	24.532 530	0.040 7622	3.70	1.606 8896	40.447 304	0.024 7235
.21	394 0853	.779 086	.040 3566	.71	.611 2325	.853 807	.024 4775
.22	.398 4282	25.028 120	.039 9551	.72	.615 5755	41.264 394	.024 2340
.23	.402 7712	.279 657	039 5575	•73	.619 9184	.679 108	.023 9928
.24	.407 1141	.533 722	.039 1639	•74	.624 2614	42.097 990	.023 7541
3.25	1.411 4571	25.790 340	0.038 7742	3.75	1.628 6043	42.521 082	0.023 5177
.26	. 415 8000	26.049 537	.038 3884	.76	.632 9473	.948 426	.023 2837
.27	.420 1430	.311 339	.038 0064	•77	.637 2902	43.380 065	.023 0521
.28	.424 4859	.575 773 .842 864	.037 6283	.78	.641 6331 .645 9761	.816 042 44.256 400	.022 8227
.29	.428 8288	.642 604	.037 2538	• <i>7</i> 9			
3.30	1.433 1718	27.112 639	0.036 8832	3.80	1.650 3190	44.701 185	0.022 3708
.31	·437 5147	.385 125	.036 5162	.81	.654 6620	45.150 439	.022 1482
.32	.441 8577	.660 351	.036 1528	82	.659 0049	.604 208	.021 9278
•33	.446 2006	.938 342	035 7931	.83	663 3479	46.062 538 525 474	.021 7096
•34	.450 5436	28.219 127	.035 4370	.84		• 525 474	.021 4930
3.35	1.454 8865	28.502 734	0.035 0844	3.85	1.672 0338	46.993 063	
.36	.459 2295	.789 191	•034 7353	.86	.676 3767	47.465 351	.021 0680
•37	.463 5724	29.078 527	.034 3896	.87	.680 7196	.942 386	.020 8584
.38	.467 9153	.370 771	034 0475	.88	.685 0626	48.424 215	.020 6508
•39	.472 2583	.665 952	.033 7087	.89	.689 4055	.910 007	.020 4453
3.40	1.476 6012		0.033 3733	3.90	1.693 7485	49.402 449	
.41	.480 9442	30.265 244	.033 0412	.91	.698 0914	.898 952	.020 0405
.42	.485 2871	.569 415	.032 7124	.92	.702 4344	50.400 445	.019 8411
•43	.489 6301	.876 643	.032 3869	•93	.706 7773	.906 978	.019 6437
•44	·493 9730	31.186 958	.032 0647	•94	.711 1203	51.418 601	.019 4482
3.45	1.498 3160	31.500 392	0.031 7456	3.95	1.715 4632	51.935 367	0.019 2547
.46	.502 6589	.816 977	.031 4298	.96	.719 8061	52.457 326	.019 0631
•47	.507 0019	32.136 743	.031 1170	•97	.724 1491	.984 531	.018 8734
.48	.511 3448	.459 722 .785 948	.030 8074	.98 .99	.728 4920	53.517 034 54.054 889	.018 6856
3.50	1.520 0307	33.115 452	0.030 1974	4.00	1.737 1779	54.598 150	0.018 3156
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e	e <sup>-u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>
IONG(G)	10210(6)	l	١	loge(6)	10810/0 /	1	_

The Exponential.

u	log <sub>10</sub> (e <sup>11</sup> )	e <sup>u</sup>	e <sup>-u</sup>	U	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	6 <sup>—u</sup>
4.00 .01 .02	1.737 1779 .741 5209 .745 8638 .750 2068	54.598 150 55.146 871 .701 106 56.260 911	0.018 3156 .018 1334 .017 9530 .017 7743	4.50 .51 .52 .53	1.954 3252 .958 6681 .963 0111 .967 3540	90.017 131 .921 819 91.835 598 92.758 561	0.011 1090 .010 9985 .010 8890 .010 7807
.04	•754 5497	.826 343	.017 5975	•54	.971 6969	93.690 800	,010 6734
4.05 .06 .07 .08 .09	1.758 8927 .763 2356 .767 5785 .771 9215 .776 2644	57.397 457 .974 311 58.556 963 59.145 470 .739 892	0.017 4224 .017 2490 .017 0774 .016 9075 .016 7392	4.55 .56 .57 .58 .59	1.976 0399 .980 3828 .984 7258 .989 0687 .993 4117	94.632 408 95.583 480 96.544 110 97.514 394 98.494 430	0.010 5672 .010 4621 .010 3580 .010 2549 .010 1529
4. IO .II .I2 .I3 .I4	1.780 6074 .784 9503 .789 2933 .793 6362 .797 9792	60.340 288 946 718 61.559 242 62.177 923 .802 821	0.016 5727 .016 4078 .016 2445 .016 0829 .015 9229	4.60 .61 .62 .63	1.997 7546 2.002 0976 .006 4405 .010 7835 .015 1264	99.484 316 100.484 150 101.494 032 102.514 064 103.544 348	0.010 0518 .009 9518 .009 8528 .009 7548 .909 6577
4.15 .16 .17 .18	1.802 3221 .806 6650 .811 0080 .815 3509 .819 6939	63.434 000 64.071 523 .715 452 65.365 853 66.022 791	0,015 7644 .015 6076 .015 4523 .015 2985 .015 1463	4.65 .66 .67 .68	2.019 4693 .023 8123 .028 1552 .032 4982 .036 8411	104.584 986 105.636 082 106.697 743 107.770 073 108.853 180	0.009 5616 .009 4665 .009 3723 .009 2790 .009 1867
4.20 .21 .22 .23 .24	1.824 0368 .828 3798 .832 7227 .837 0657 .841 4086	66.686 331 67.356 540 68.033 484 .717 232 69.407 852	0.014 9956 .014 8464 .014 6986 .014 5524 .014 4076	4.70 .71 .72 .73 .74	2.041 1841 .045 5270 .049 8700 .054 2129 .058 5558	109.947 173 111.052 160 112.168 253 113.295 563 114.434 202	0.009 0953 .009 0048 .008 9152 .008 8265 .008 7386
4.25 .26 .27 .28 .29	1.845 7515 .850 0945 .854 4374 .858 7804 .863 1233	70.105 412 .809 983 71.521 636 72.240 440 .966 468	0.014 2642 .014 1223 .013 9818 .013 8427 .013 7049	4.75 .76 .77 .78 .79	2.062 8988 .067 2417 .071 5847 .075 9276 .080 2706	115.584 285 116.745 926 117.919 242 119.104 351 120.301 369	0.008 6517 .008 5656 .008 4804 .008 3960 .008 3125
4.30 .31 .32 .33 .34	1.867 4663 .871 8092 .876 1522 .880 4951 .884 8381	73.699 794 74.440 489 75.188 628 .944 287 76.707 539	0.013 5686 .013 4335 .013 2999 .013 1675 .013 0365	4.80 .81 .82 .83 .84	2.084 6135 .088 9565 .093 2994 .097 6423 .101 9853	121.510 418 122.731 618 123.965 091 125.210 961 126.469 352	0.008 2297 .008 1479 .008 0668 .007 9865 .007 9071
4·35 ·36 ·37 ·38 ·39	1.889 1810 .893 5239 .897 8669 .902 2098 .906 5528	77.478 463 78.257 134 79.043 632 .838 033 80.640 419	0.012 9068 .012 7784 .012 6512 .012 5254 .012 4007	4.85 .86 .87 .88	2.106 3282 .110 6712 .115 0141 .119 3571 .123 7000	127.740 390 129.024 203 130.320 918 131.630 665 132.953 575	0.007 8284 .007 7505 .007 6734 .007 5970 .007 5214
4.40 .41 .42 .43 .44	1.910 8957 .915 2387 .919 5816 .923 9246 .928 2675	81.450 869 82.269 464 83.096 285 .931 417 84.774 942	0.012 2773 .012 1552 .012 0342 •.011 9145 .011 7959	4.90 .91 .92 .93	2.128 0430 .132 3859 .136 7289 .141 0718 .145 4147	134.289 780 135.639 415 137.002 613 138.379 513 139.770 250	
4·45 .46 .47 .48 .49	1.932 6104 .936 9534 .941 2963 .945 6393 .949 9822	85.626 944 86.487 509 87.356 723 88.234 673 89.121 446	0.011 6786 .011 5624 .011 4473 .011 3334 .011 2206	4.95 .96 .97 .98	2.149 7577 .154 1006 .158 4436 .162 7865 .167 1295	141.174 964 142.593 796 144.026 888 145.474 382 146.936 424	0.007 0834 .007 0129 .006 9431 .006 8741 .006 8057
4.50	1.954 3252	90.017 131	0.011 1090	5.00	2.171 4724	148.413 159	0.006 7379
log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e a	e-u

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	е <sup>—ч</sup>	u	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	eu •
5.00	2.171 4724	148.413 159	0.006 7379	5.50	2.388 6197	244.691 932	
.0I .02	.175 8154 .180 1583	149.904 736 151.411 304	.006 6709 .006 6045	.51	392 9626		004 0461
.03	.184 5012	152.933 013	.006 5388	•52 •53	.397 3055 .401 6485	249.635 037 252.143 911	.004 0058 .003 9660
.04	.188 8442	154.470 015	.006 4737	•54	405 9914	254.677 999	.003 9265
5.05 .06	2.193 1871	156.022 464	0.006 4093	5.55	2,410 3344	257.237 556	0.003 8875
.07	.197 5301 .201 8730	157.590 516 159.174 327	.006 3456 .006 2824	.56 .57	.414 6773 .419 0203	259.822 836 262.434 099	.003 8488
.08	.206 2160	160.774 056	.006 2199	.58	.423 3632	265.071 606	.003 7726
.09	.210 5589	162.389 862	.006 1580	•59	.427 7062	267.735 620	.003 7350
5.10	2.214 9019	164.021 907	0.006 0967	5.60	2.432 0491	270.426 407	0.003 6979
.II .I2	.219 2448	165.670 355 167.335 369	.006 0361	.61 .62	.436 3920	273.144 238 275.889 383	.003 6611
.13	.227 9307	169.017 118	.005 9166	.63	.440 7350 .445 0779	278.662 117	.003 5886
.14	.232 2736	170.715 768	.005 8577	.64	.449 4209	281.462 718	.003 5529
5.15	2.236 6166	172.431 490	0.005 7994	5.65	2.453 7638	284.291 466	0.003 5175
.16	.240 9595	174.164 455	.005 7417	.66	.458 1068	287.148 642	.003 4825
.17	.245 3025 .249 6454	175.914 837	.005 6846 .005 6280	.67 .68	.462 4497 .466 7927	290.034 534 292.949 430	.003 4479 .003 4136
.19	.253 9884	179.468 553	.005 5720	.69	.471 1356	295.893 620	.003 3796
5.20	2.258 3313	181.272 242	0.005 5166	5.70	2.475 4785	298.867 401	0.003 3460
.21		183.094 058	.005 4617	.71	.479 8215	301.871 068	.003 3127
.22	.267 0172 .271 3601	184.934 184 186.702 804	.005 4073	.72	.484 1644 .488 5074	304.904 923	.003 2797
.24	.275 7031	188.670 103	.005 3003	•73 •74	.492 8503	311.064 411	.003 24/1
5.25	2.280 0460	190.566 269	0.005 2475	5.75	2.497 1933	314.190 660	0.003 1828
.26	.284 3890	192.481 491	.005 1953	.76	.501 5362	317.348 329	.003 1511
.27	.288 7319 .293 0749	194.415 963 196.369 875	.005 1436	77 .78	.505 8792 .510 2221	320.537 733 323.759 190	.003 1198
.29	.297 4178	198.343 426	.005 0924 .005 0418	.79	.514 5651	327.013 024	.003 0580
5.30		200.336 810	0.004 9916	5.80	2.518 9080	330.299 560	
.31	.306 1037	202.350 228	.004 9419	.81	.523 2509	333.619 126	.002 9974
.32	.310 4466 .314 <i>7</i> 896	204.383 882	.004 8928	.82 .83	•527 5939 •531 9368	336.972 054 340.358 679	.002 9676 .002 9381
•33 •34	.319 1325	200.437 974 208.512 710	.004 8441	.84	.536 2798	343.779 341	.002 9301
5.35	2.323 4755	210.608 298	0.004 7482	5.85	2.540 6227	347.234 381	
.36	.327 8184	212.724 946	.004 7009	.86	544 9657	350.724 144	.002 8512
·37 ·38	.332 1614 .336 5043	214.862 868 217.022 275	.004 6541	.87 .88	.549 3086 .553 6516	354.248 980 357.809 242	.002 8229
.39	.340 8473	219.203 386	.004 5620	.89	557 9945	361.405 284	.002 7670
5.40	2.345 1902	221.406 416	0.004 5166	5.90	2.562 3374		
.41	· 349 5331	223.631 588	.004 4716	.91	.566 6804	368.706 156	.002 7122
.42	.353 8761 .358 2190	225.879 122 228.149 245	.004 4271	.92 .93	.571 0233 .575 3663	372.411 714 376.154 514	.002 6852
•43 •44	.362 5620	230.442 183	.004 3395	•94	.579 7092	379.934 930	.002 6320
5.45	2.366 9049	232.758 166	0.004 2963	5.95	2.584 0522	383.753 339	0.002 6058
.46	.371 2479	235.097 424	.004 2536	.96	.588 3951	387.610 124	.002 5799
.47 .48	375 5908 379 9338	237.460 193 239.846 707	.004 2112	.97 .98	.592 7381 .597 0810	391.505 671 395.440 368	.002 5542
•49	.384 2767	242.257 207	.004 1093	.99	.601 4239	399.414 610	.002 5037
5.50	2.388 6197	244.691 932	0.004 0868	6.00	2.605 7669	403.428 794	0.002 4788
log <sub>e</sub> (e <sup>n</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>u</sup>	log <sub>e</sub> (e <sup>u</sup> )	log <sub>10</sub> (e <sup>u</sup> )	e <sup>u</sup>	e <sup>-u</sup>

The Exponential.

1			
u	log <sub>10</sub> (e <sup>u</sup> )	en	e—u
1 2 3 4 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26	10g 10 (e <sup>n</sup> )  .43429 44819 .86858 89638 1.30288 34457 1.73717 79276 2.17147 24095 2.60576 68914 3.04006 13733 3.47435 58552 3.90865 03371 4.34294 48190 4.77723 93000 5.21153 37828 5.64582 82647 6.08012 27466 6.51441 72285 6.94871 17105 7.38300 61924 7.81730 06743 8.25159 51562 8.68588 96381 9.12018 41200 9.58447 86019 9.98877 30838 10.42306 75657 10.85736 20476 11.29165 65295 11.72595 10114	eu  2.71 828 183 7.38 905 610 20.0 855 369 54.5 981 500 148. 413 159 403. 428 793 109 6.63 316 298 0.95 799 810 3.08 393 220 26.4 658 598 74.1 417 162 754. 791 442 413. 392 120 260 4.28 326 901 7.37 888 611 0.52 241 549 52.8 656 599 69.1 178 482 301. 485 165 195. 131 881 573 131 881 573 131 881 573 131 881 573 153 480 345 161 264 891 221 20 048 993 [2] 195 729 609 [3] 532 048 241 [3]	e-u  0.367 879 441 0.135 335 283 (1) 497 870 684 (1) 183 156 389 (2) 673 794 700 (2) 247 875 218 (3) 911 881 966 (3) 335 462 628 (3) 123 409 804 (4) 453 909 298 (4) 167 017 008 (5) 614 421 235 (5) 226 032 941 (6) 831 528 719 (6) 831 528 719 (6) 305 902 321 (6) 112 535 175 (7) 413 903 772 (7) 152 299 797 (8) 560 279 644 (8) 206 115 362 (9) 758 256 043 (9) 278 946 809 (9) 102 618 796 (10) 377 513 454 (10) 138 879 439 (11) 510 908 903 (11) 187 952 882
22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38	9.55447 86010 9.98877 30838 10.42306 75657 10.85736 20476 11.29165 65295 11.72595 10114 12.16024 54933 12.59453 99752 13.02883 44571 13.46312 89390 13.89742 34209 14.33171 79028 14.76601 23847 15.20030 68666 15.63460 13485 16.06889 58304 16.50319 03123	358 491 285 [1] 974 480 345 [1] 974 480 345 [1] 264 891 221 [2] 720 048 993 [2] 195 729 609 [3] 532 048 241 [3] 144 625 707 [4] 393 133 430 [4] 106 864 746 [5] 290 488 497 [5] 789 629 602 [5] 214 643 580 [6] 158 601 345 [7] 431 123 155 [7] 117 191 424 [8] 318 550 318 [8]	(9) 278 946 809 (9) 102 618 796 (10) 377 513 454 (10) 138 879 439 (11) 510 908 903 (11) 187 952 882 (12) 691 440 011 (12) 254 366 565 (13) 935 762 297 (13) 344 247 711 (13) 126 641 656 (14) 465 888 615 (14) 471 390 843 (15) 630 511 766 (15) 231 952 283 (16) 853 304 763 (16) 313 913 279
39 40 41 42 43 44 45 46 47 48 49 50	16.93748 47942 17.37177 92761 17.80607 37580 18.24036 82390 18.67466 27218 19.10895 72037 19.54325 16856 19.97754 61675 20.41184 06495 20.84613 51314 21.28042 96133 21.71472 40952	865 934 004 [8] 235 385 267 [9] 639 843 493 [9] 173 927 494 [10] 472 783 947 [10] 128 516 001 [11] 349 342 711 [11] 949 611 942 [11] 258 131 289 [12] 701 673 591 [12] 701 673 591 [12] 518 470 553 [13]	(16) 115 482 242 (17) 424 835 426 (17) 156 288 219 (18) 574 952 227 (18) 211 513 104 (19) 778 113 221 (19) 286 251 858 (19) 105 306 174 (20) 387 399 763 (20) 142 516 408 (21) 524 288 566 (21) 192 874 985

The numbers in square brackets denote the numbers of figures between the last figure given and the decimal point; for example, the first nine figures of e<sup>80</sup> are 518470553, and there are 13 additional figures before the decimal point is reached. The numbers in parentheses denote the numbers of ciphers between the decimal point and the first significant figure; for example, in e<sup>-80</sup> there are 21 ciphers between the decimal point and the figures 192874985.

The Exponential.

u	log <sub>10</sub> (e <sup>u</sup> )	eu	e-u
51	22.14901 85771	140 934 908 [14] 383 100 800 [14] 104 137 594 [15] 283 075 330 [15] 769 478 527 [15] 209 165 950 [16] 154 553 894 [17] 420 121 040 [17] 114 200 739 [18] 310 429 794 [18] 843 835 667 [18] 220 378 316 [19]	(22) 709 547 416
52	22.58331 30590		(22) 261 027 907
53	23.01760 75409		(23) 960 268 005
54	23.45190 20228		(23) 353 262 857
55	23.88619 65047		(23) 129 958 143
56	24.32049 09866		(24) 478 089 288
57	24.75478 54685		(24) 175 879 220
58	25.18907 99504		(25) 647 023 493
59	25.62337 44323		(25) 238 026 641
60	26.05766 89142		(26) 875 651 076
61	26.49196 33961		(26) 322 134 029
62	26.92625 78780		(26) 118 506 487
63	27.36055 23599		(27) 435 961 000
64	27.79484 68418	623 514 908 [19]	(27) 160 381 089
65	28.22914 13237	169 488 924 [20]	(28) 590 009 054
66	28.66343 58056	460 718 663 [20]	(28) 217 052 201
67	29.09773 02875	125 236 317 [21]	(29) 798 490 425
68	29.53202 47694	340 427 605 [21]	(29) 293 748 211
69	29.96631 92513	925 378 172 [21]	(29) 108 063 928
70	30.40061 37332	251 543 867 [22]	(30) 397 544 974
71	30.83490 82151	683 767 123 [22]	(30) 146 248 623
72	31.26920 26970	185 867 175 [23]	(31) 538 018 616
73	31.70349 71789	505 239 363 [23]	(31) 197 925 988
74	32.13779 16608	137 338 298 [24]	(32) 728 129 018
75	32.57208 61427	373 324 200 [24]	(32) 267 853 696
76	33.00638 06246	101 480 039 [25]	(33) 985 415 469
77	33.44067 51066	275 851 346 [25]	(33) 362 514 092
78	33.87496 95885	749 841 700 [25]	(33) 133 361 482
79	34.30926 40704	203 828 107 [26]	(34) 490 609 473
80	34.74355 85523	554 062 238 [26]	(34) 180 485 139
81	35.17785 30342	150 609 731 [27]	(35) 663 967 720
82	35.61214 75161	409 399 696 [27]	(35) 244 260 074
83 84 85 86	36.04644 19980 36.48073 64799 36.91503 09618	111 286 376 [28] 302 507 732 [28] 822 301 271 [28]	(36) 898 582 594 (36) 330 570 063 (36) 121 609 930
87 88 89	37.34932 54437 37.78361 99256 38.21791 44075 38.65220 88894	223 524 660 [29] 607 603 023 [29] 165 163 626 [30] 448 961 282 [30]	(37) 447 377 931 (37) 164 581 143 (38) 605 460 189 (38) 222 736 356
90	39.08650 33713	122 040 329 [31]	(39) 819 401 262
91	39.52079 78532	331 740 010 [31]	(39) 301 440 879
92	39.95509 23351	901 762 841 [31]	(39) 110 893 902
93	40.38938 68170	245 124 554 [32]	(40) 407 955 867
94 95 96	40.82368 12989 41.25797 57808 41.69227 02627 42.12656 47446	666 317 622 [32] 181 123 908 [33] 492 345 829 [33] 133 833 472 [34]	(40) 150 078 576 (41) 552 108 228 (41) 203 109 266 (42) 747 197 234
97 98 99 100	42.12050 47440 42.56085 92265 42.99515 37084 43.42944 81903	363 797 095 [34] 988 903 032 [34] 268 811 714 [35]	(42) 747 197 234 (42) 274 878 501 (42) 101 122 149 (43) 372 007 598
I	<u> </u>	I make the second and	to the state of th

The numbers in square brackets denote the numbers of figures between the last figure given and the decimal point; for example, the first nine figures of e<sup>50</sup> are 518470553, and there are 13 additional figures before the decimal point is reached. The numbers in parentheses denote the numbers of ciphers between the decimal point and the first significant figure; for example, in e<sup>-50</sup> there are 21 ciphers between the decimal point and the figures 192874985.

# Auxiliary Table for Interpolation of Log<sub>10</sub>(e<sup>u</sup>).

 $(p=n \times 43429 44819 \dots)$ 

n	p	n	p	n e	p	n	р	n	D
0.000 .001 .002 .003 .004	000 043 087 130 174	0.050 .051 .052 .053	2171 2215 2258 2302 2345	0.100 .101 .102 .103 .104	4343 4386 4430 4473 4517	0.150 .151 .152 .153 .154	6514 6558 6601 6645 6688	0.200 .201 .202 .203 .204	8686 8729 8773 8816 8860
0.005 .006 .007 .008 .009	217 261 304 347 391	0.055 .056 .057 .058 .059	2389 2432 2475 2519 2562	0.105 .106 .107 .108 .109	4560 4604 4647 4690 4734	0.155 .156 .157 .158 .159	6732 6775 6818 6862 6905	0.205 .206 .207 .208 .209	8903 8946 8990 9033 9777
0.010 .011 .012 .013 .014	434 478 521 565 608	0.060 .061 .062 .063 .064	2606 2649 2693 2736 2779	0.110 .111 .112 .113 .114	4777 4821 4864 4908 4951	0.160 .161 .162 .163 .164	6949 6992 7036 7079 7122	0.210 .211 .212 .213 .214	9120 9164 9207 9250 9294
0.015 .016 .017 .018 .019	651 695 738 782 825	0.065 .066 .067 .068 .069	2823 2866 2910 2953 2997	0.115 .116 .117 .118 .119	4994 5038 5081 5125 5168	0.165 .166 .167 .168 .169	7166 7209 7253 7296 7340	0.215 .216 .217 .218 .219	9337 9381 9424 9468 9511
0.020 .021 .022 .023 .024	869 912 955 999 1042	0.070 .071 .072 .073	3040 3083 3127 3170 3214	0.120 .121 .122 .123 .124	5212 5255 5298 5342 5385	0.170 .171 .172 .173 .174	7383 7426 7470 7513 7557	0.220 .221 .222 .223 .224	9554 9598 9641 9685 9728
0.025 .026 .027 .028 .029	1086 1129 1173 1216 1259	0.075 .076 .077 .078 .079	3257 3301 3344 3387 3431	0.125 .126 .127 .128 .129	5429 5472 5516 5559 5602	0.175 .176 .177 .178 .179	7600 7644 7687 7730 7774	0.225 .226 .227 .228 .229	9772 9815 9858 9902 9945
0.030 .031 .032 .033 .034	1303 1346 1390 1433 1477	0.080 .081 .082 .083	3474 3518 3561 3605 3648	0.130 .131 .132 .133 .134	5646 5689 5733 5776 5820	0.180 .181 .182 .183 .184	7817 7861 7904 7948 7991	0.230 .231 .232 .233 .234	9989 10032 10076 10119 10162
0.035 .036 .037 .038 .039	1520 1563 1607 1650 1694	0.085 .086 .087 .088	3692 3735 3778 3822 3865	0.135 .136 .137 .138 .139	5863 5906 5950 5993 6037	0.185 .186 .187 .188 .189	8034 8078 8121 8165 8208	0.235 .236 .237 .238 .239	10206 10249 10293 10336 10380
0.040 .041 .042 .043	1737 1781 1824 1867 1911	0.090 .091 .092 .093 .094	3909 3952 3996 4039 4082	0.140 .141 .142 .143	6080 6124 6167 6210 6254	0. 190 . 191 . 192 . 193 . 194	8252 8295 8338 8382 8425	0.240 .241 .242 .243 .244	10423 10466 10510 10553 10597
0.045 .046 .047 .048 .049	1954 1998 2041 2085 2128	0.095 .096 .097 .098 .099	4126 2169 4213 4256 4300	0.145 .146 .147 .148 .149	6297 6341 6384 6428 6471	0.195 .196 .197 .198 .199	8469 8512 8556 8599 8642	0.245 .246 .247 .248 .249	10640 10684 10727 10771 10814
0.050	2171	0.100	4343	0.150	6514	0.200	8686	0.250	10857
n	p	n 🖘	D	n	D	n	D	n	p

# Auxiliary Table for Interpolation of $Log_{10}(e^{u})$ . $(p=n \times 43429 44819 \dots)$

n	D	n	D	n	D	n	р	n	p
0.250	10857	0.300	13029	0.350	15200	0.400	17372	0.450	19543
.251	10001	.301	13072	.351	15244	.401	17415	.451	19543
.252	10944	.302	13116	.352	15287	402	17459	.452	19630
.253	10088	.303	13159	•353	15331	403	17502	•453	19674
.254	11031	.304	13203	•354	15374	•404	17545	•454	19717
0.255	11075	0.305	13246	0.355	15417	0.405	17589	0.455	19760
.256	11118	.306	13289	.356	15461	.406	17632	.456	19804
.257	11161	.307	13333	•357	15504	.407	17676	•457	19847
.258	11205	.308	13376	.358	15548	.408	17719	.458	19891
.259	11248	.309	13420	•359	15591	.409	17763	•459	19934
0.260	11292	0.310	13463	0.360	15635	0.410	17806	0.460	19978
.261 .262	11335	.311	13507	.361	15678	.411	17850	.461	20021
.202	11379 11422	.312	13550	.362 .363	15721 15765	.412		.462 .463	20064 20108
264	11422	.313 .314	13593 13637	•363 •364	15808	.4I3 .4I4	17936 1 <b>7980</b>	.403 .464	20106
	, -				-				
0.265	11.509	0.315	13680	0.365	15852	0.415	18023	0.465	20195
.266	11552	.316	13724	.366	15895	.416	18067	.466	20238
.267	11596	.317	13767	•367	15939	.417	18110	•467	20282
.269	11639 11683	.318	13811 13854	.368 .369	15982 16025	.418	18154 18197	.468 .469	20325
•209		.319			_	.419			20300
0.270	11726	0.320	13897	0.370	16069	0.420	18240	0.470	20412
.271	11769	.321	13941	·371	16112	.421	18284	.471	20455
.272	11813	.322	13984	.372	16156	.422	18327	.472	20499
.273	11856	.323	14028	•373	16199	.423	18371	•473	20542
.274	11900	•324	14071	•374	16243	•424	18414	•474	20586
0.275	11943	0.325	14115	0.375	16286	0.425	18458	0.475	20629
.276	11987	.326	14158	•376	16329	.426	18501	<b>.</b> 476	20672
.277	12030	327	14201	•377	16373	.427	18544	•477	20716
.278	12073	.328	14245	.378	16416	.428	18588	478	20759
.279	12117	.329	14288	•379	16 <b>460</b>	.429	18631	•479	20803
0.280	12160	0.330	14332	0.380	16503	0.430	18675	0.480	20846
.281	12204	•331	14375	.381	16547	•431	18718	481	20890
.282	12247	•332	14419	•382	16590	.432	18762	.482	20933
.283	12291	•333	14462	383	16633	•433	18805	.483	20976
.284	12334	•334	14505	.384	16677	•434	18848	.484	21020
0.285	12377	0.335	14:549	0.385	16720	0.435	18892	0.485	21063
.286	12421	.336	14592	.386	16764	.436	18935	.486	21107
.287	12464	•337	14636	.387	16807	•437	18979	.487	21150
.288	12508	•338	14679	388	16851	.438	19022	.488	21194
.289	12551	•339	14723	.389	16894	•439	19066	.489	21237
0.290	12595	0.340	14766	0.390	16937	0.440	19109	0.490	21280
.291	12638	.341	14809	•391	16981	·44I	19152	.491	21324
.292	12681	.342	14853	.392	17024	.442	19196	•493	21367
.293	12725	•343	14896	•393	17068	•443	19239	•493	21411
•294	12768	•344	14940	•394	17111	•444	19283	•494	21454
0.295	12812	0.345	14983	0.395	17155	0.445	19326	0.495	21498
.296	12855	.346	15027	•396	17198	.446	19370	.496	21541
.297	12899	•347	15070	•397	17241	•447	19413	•497	21584
.298	12942	.348	15113	.398	17285	.448	19456	.498	21628
.299	12985	•349	15157	•399	17328	•449	19500	•499	21671
0.300	13029	0.350	15200	0.400	17372	0.450_	19543	0.500	21715
n	p	n .	, p	n	p	n	р	n	p

			and the second	
	TABLE V			allanderik. Birilanderik
	IATURAL LOGAR	PITHMS		
ing a well to the Area have the real ex-		aktive grapaterik i saa Saarikan na saarik		eller i de let er skriver de grande til bet skriver skriver
Note.—In Table loge u suffices to give a	V, for $u$ greater th value whose error is	an 158, linea not greater	ır interi than o	oolation of ne unit in
the last place.				263
	그러 나는 네가 나라 병을 다 가			
		All the first of the second		
[18] 25 - 18 - 18 - 18 - 18 - 18 - 18 - 18 - 1				

u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	logeu	ω F <sub>0</sub> ′	u	logeu	ω F <sub>0</sub> '
0	—∞	00	50	3.91202	2000	100	4.60517	1000	150	5.01064	667
1	0.00000	100000	51	3.93183	1961	101	4.61512	990	151	5.01728	662
2	0.69315	50000	52	3.95124	1923	102	4.62497	980	152	5.02388	658
3	1.09861	33333	53	3.97029	1887	103	4.63473	971	153	5.03044	654
4	1.38629	25000	54	3.98898	1852	104	4.64439	962	154	5.03695	649
56 78 9	1.60944 1.79176 1.94591 2.07944 2.19722	20000 16667 14286 12500 11111	55 56 57 58 59	4.00733 4.02535 4.04305 4.06044 4.07754	1818 1786 1754 1724 1695	105 106 107 108 109	4.65396 4.66344 4.67283 4.68213 4.69135	952 943 935 926 917	155 156 157 158 159	5.04343 5.04986 5.05625 5.06260 5.06890	645 641 637 633 629
10	2.30259	10000	60	4.09434	1667	110	4.70048	909	160	5.07517	625
11	2.39790	9091	61	4.11087	1639	111	4.70953	901	161	5.08140	621
12	2.48491	8333	62	4.12713	1613	112	4.71850	893	162	5.08760	617
13	2.56495	7692	63	4.14313	1587	113	4.72739	885	163	5.09375	613
14	2.63906	7143	64	4.15888	1562	114	4.73620	877	164	5.09987	610
15	2.70805	6667	65	4.17439	1538	115	4.74493	870	165	5.10595	606
16	2.77259	6250	66	4.18965	1515	116	4.75359	862	166	5.11199	602
17	2.83321	5882	67	4.20469	1493	117	4.76217	855	167	5.11799	599
18	2.89037	5556	68	4.21951	1471	118	4.77068	847	168	5.12396	595
19	2.94444	5263	69	4.23411	1449	119	4.77912	840	169	5.12990	592
20	2.99573	5000	70	4.24850	1429	120	4.78749	833	170	5*13580	588
21	3.04452	4762	71	4.26268	1408	121	4.79579	826	171	5.14166	585
22	3.09104	4545	72	4.27667	1389	122	4.80402	820	172	5.14749	581
23	3.13549	4348	73	4.29046	1370	123	4.81218	813	173	5.15329	578
24	3.17805	4167	74	4.30407	1351	124	4.82028	806	174	5.15906	575
25	3.21888	4000	75	4.31749	1333	125	4.82831	800	175	5.16479	571
26	3.25810	3846	76	4.33073	1316	126	4.83628	794	176	5.17048	568
27	3.29584	3704	77	4.34381	1299	127	4.84419	787	177	5.17615	565
28	3.33220	3571	78	4.35671	1282	128	4.85203	781	178	5.18178	562
29	3.36730	3448	79	4.36945	1266	129	4.85981	775	179	5.18739	559
30	3.40120	3333	80	4.38203	1250	130	4.86753	769	180	5.19296	556
31	3.43399	3226	81	4.39445	1235	131	4.87520	763	181	5.19850	552
32	3.46574	3125	82	4.40672	1220	132	4.88280	758	182	5.20401	549
33	3.49651	3030	83	4.41884	1205	133	4.89035	752	183	5.20949	546
34	3.52636	2941	84	4.43082	1190	134	4.89784	746	184	5.21494	543
35	3.55535	2857	85	4.44265	1176	135	4.90527	741	185	5.22036	541
36	3.58352	2778	86	4.45435	1163	136	4.91265	735	186	5.22575	538
37	3.61092	2703	87	4.46591	1149	137	4.91998	730	187	5.23111	535
38	3.63759	2632	88	4.47734	1136	138	4.92725	725	188	5.23644	532
39	3.66356	2564	89	4.48864	1124	139	4.93447	719	189	5.24175	529
40	3.68888	2500	90	4.49981	1111	140	4.94164	714	190	5.24702	526
41	3.71357	2439	91	4.51086	1099	141	4.94876	709	191	5.25227	524
42	3.73767	2381	92	4.52179	1087	142	4.95583	704	192	5.25750	521
43	3.76120	2326	93	4.53260	1075	143	4.96284	699	193	5.26269	518
44	3.78419	2273	94	4.54329	1064	144	4.96981	694	194	5.26786	515
45	3.80666	2222	95	4.55388	1053	145	4.97673	690	195	5.27300	513
46	3.82864	2174	96	4.56435	1042	146	4.98361	685	196	5.27811	510
47	3.85015	2128	97	4.57471	1031	147	4.99043	680	197	5.28320	508
48	3.87120	2083	98	4.58497	1020	148	4.99721	676	198	5.28827	505
49	3.89182	2041	<b>9</b> 9	4.59512	1010	149	5.00395	671	199	5.29330	503
50	3.91202	2000	100	4.60517	1000	150	5.01064	667	200	5.29832	500
ex	x	e×	ex	x	e—×	θX	×	e×	θX	X	e—×

	log <sub>e</sub> u .	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′
200	5.29832	500	250	5.52146	400	300	5.70378	333	350	5.85793	286
201	5.30330	498	251	5.52545	398	301	5.70711	332	351	5.86079	285
202	5.30827	495	252	5.52943	397	302	5.71043	331	352	5.86363	284
203	5.31321	493	253	5 - 53339	395	303	5.71373	330	353	5.86647	283
204	5.31812	490	254	5.53733	394	304	5.71703	329	354	5.86930	282
205	5.32301	488	255	5.54126	392	305	5.72031	328	355	5.87212	282
206	5.32788	485	256	5.54518	391	306	5.72359	327	356	5.87493	281
207	5.33272	483	257	5.54908	389	307	5.72685	326	357	5.87774	280
208 209	5.33754 5.34233	481 478	258 259	5.55296 5.55683	388 386	308 309	5.73010 5.73334	325 324	358 359	5.88053 5.88332	279 279
210	5.34711	476	260	5.56068	385	310	5 73657	323	360	5.88610	278
211	5.35186	474	26I	5.56452	383	311	5.73979	322	361	5.88888	277
212	5.35659	472	262	5.56834	382	312	5.74300	321	362	5.89164	276
213	5.36129	469	263	5.57215	380	313	5.74620	319	363	5.89440	275
214	5.36598	467	264	5.57595	379	314	5.74939	318	364	5.89715	275
215	5.37064	465	265	5.57973	377	315	5.75257	317	365	5.89990	274
216	5.37528	463	266	5.58350	<i>37</i> 6	316	5.75574	316	366	5.90263	273
217	5:37990	461	267	5.58725	375	317	5.75890	315	367	5.90536	272
218 219	5.38450 5.38907	459 457	268 269	5.59099 5.59471	373 372	318	5.76205 5.76519	314 313	368 369	5.90808 5.91080	272 271
220	5.39363	455	270	5.59842	370	320	5.76832	312	<i>37</i> 0	5.91350	270
22I	5.39816	452	27I	5.60212	369	321	5.77144	312	371	5.91520	270
222	5.40268	450	272	5.60580	368	322	5.77455	311	372	5.91889	260
223	5.40717	448	273	5.60947	366	323	5.77765	310	373	5.92158	268
224	5.41165	446	274	5.61313	365	324	5.78074	309	374	5.92426	267
225	5.41610	444	275	5.61677	364	325	5.78383	308	3 <b>7</b> 5	5.92693	267
226	5.42053	442	276	5.62040	362	326	5.78690	307	376	5.92959	266
227	5.42495	441	277	5.62402	361	327	5.78996	306	377	5.93225	265
228	5 • 42935	439	278	5.62762	360	328	5.79301	305	378	5.93489	265
229	5.43372	437	279	5.63121	358	329	5.79606	304	379	5.93754	264
230	5.43808	435	280	5.63479	357	330	5.79909	303	380	5.94017	263
231	5.44242 5.44674	433	281 282	5.63835 5.64191	356	331	5.80212 5.80513	302	381 382	5.94280	262 262
232 233	5.45104	431 429	283	5.64545	355	332 333	5.80814	301 300	383	5.94542 5.94803	261
234	5.45532	427	284	5.64897	353 352	334	5.81114	299	384	5.95 <b>0</b> 64	260
235	5 4 5 9 5 9	426	285	5.65249	351	335	5.81413	200	385	5.95324	260
236 -	5.46383	424	286	5.65599	350	336	5.81711	298	386	5.95584	259
237	5.46806	422	287	5.65948	348	337	5.82008	297	387	5.95842	258
238	5.47227	420	288	5.66296	347	338	5.82305	296	388	5.96101	258
239	5.47646	418	289	5.66643	346	339	5.82600	295	389	5.96358	257
240	5.48064	417	290	5.66988	345	340	5.82895	294	390	5.96615	256
241	5.48480	415	291	5.67332	344	341	5.83188	293	391	5.96871	256
242	5.48894	413	292	5.67675 5.68017	342	342	5.83481	292 292	392	5.97126	255
243 244	5.49306 5.49717	412 410	293 294	5.68358	341 340	343 344	5.83773 5.84064	291	393 394	5.97381 5.97635	254 254
245	5.50126	408	295	5.68698	339	345	5.84354	290	395	5.97889	253
246	5.50533	407	296	5.69036	338	346	5.84644	289	396	5.98141	253
247	5.50939	405	297	5.69373	337	347	5.84932	288	397	5.98394	252
248	5.51343	403	298	5.69709	336	348	5.85220	287	398	5.98645	251
249	5.51745	402	299	5.70044	334	349	5.85507	287	399	5.98896	251
250	5.52146	400	300	5.70378	333	350	5.85793	286	400	5.99146	250

				Natur	al Log	garith	ms.				
u	log <sub>e</sub> u	ω F <sub>0</sub> ′	ն	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	fogeu	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′
400	5.99146	250	450	6.10925	222	500	6.21461	200	550	6.30992	182
401	5.99396	249	451	6.11147	222	501	6.21661	200	551	6.31173	181
402	5.99645	249	452	6.11368	221	502	6.21860	199	552	6.31355	181
403	5.99894	248	453	6.11589	221	503	6.22059	199	553	6.31536	181
404	6.00141	248	454	6.11810	220	504	6.22258	198	554	6.31716	181
405	6.00389	247	455	6.12030	220	505	6.22456	198	555	6.31897	180
406	6.00635	246	456	6.12249	219	506	6.22654	198	556	6.32077	180
407	6.00881	246	457	6.12468	219	507	6.22851	197	557	6.32257	180
408	6.01127	245	458	6.12687	218	508	6.23048	197	558	6.32436	179
409	6.01372	244	459	6.12905	218	509	6.23245	196	559	6.32615	179
410	6.01616	244	460	6.13123	217	510	6.23441	196	560	6.32794	179
411	6.01859	243	461	6.13340	217	511	6.23637	196	561	6.32972	178
412	6.02102	243	462	6.13556	216	512	6.23832	195	562	6.33150	178
413	6.02345	242	463	6.13773	216	513	6.24028	195	563	6.33328	178
414	6.02587	242	464	6.13988	216	514	6.24222	195	564	6.33505	177
415	6.02828	241	465	6.14204	215	515	6.24417	194	565	6.33683	177
416	6.03069	240	466	6.14419	215	516	6.24611	194	566	6.33859	177
417	6.03309	240	467	6.14633	214	517	6.24804	193	567	6.34036	176
418	6.03548	239	468	6.14847	214	518	6.24998	193	568	6.34212	176
419	6.03787	239	469	6.15060	213	519	6.25190	193	569	6.34388	176
420	6.04025	238	470	6.15273	213	520	6.25383	192	570	6.34564	175
421	6.04263	238	471	6.15486	212	521	6.25575	192	571	6.34739	175
422	6.04501	237	472	6.15698	212	522	6.25767	192	572	6.34914	175
423	6.04737	236	473	6.15910	211	523	6.25958	191	573	6.35089	175
424	6.04973	236	474	6.16121	211	524	6.26149	191	574	6.35263	174
425	6.05209	235	475	6.16331	211	525	6.26340	190	575	6.35437	174
426	6.05444	235	476	6.16542	210	526	6.26530	190	576	6.35611	174
427	6.05678	234	477	6.16752	210	527	6.26720	190	577	6.35784	173
428	6.05912	234	478	6.16961	209	528	6.26910	189	578	6.35957	173
429	6.06146	233	479	6.17170	209	529	6.27099	189	579	6.36130	173
430 431 432 433 434	6.06379 6.06611 6.06843 6.07074 6.07304	233 232 231 231 230	480 481 482 483 484	6. 17379 6. 17587 6. 17794 6. 18002 6. 18208	208 208 207 207 207	530 531 532 533 534	6.27288 6.27476 6.27664 6.27852 6.28040	189 188 188 188 187	580 581 582 583 584	6.36303 6.36475 6.36647 6.36819 6.36990	172 172 172 172 172 171
435	6.07535	230	485	6.18415	206	535	6.28227	187	585	6.37161	171
436	6.07764	229	486	6.18621	206	536	6.28413	187	586	6.37332	171
437	6.07993	229	487	6.18826	205	537	6.28600	186	587	6.37502	170
438	6.08222	228	488	6.19032	205	538	6.28786	186	588	6.37673	170
439	6.08450	228	489	6.19236	204	539	6.28972	186	589	6.37843	170
440	6.08677	227	490	6.19441	204	540	6.29157	185	590	6.38012	169
441	6.08904	227	491	6.19644	204	541	6.29342	185	591	6.38182	169
442	6.09131	226	492	6.19848	203	542	6.29527	185	592	6.38351	169
443	6.09357	226	493	6.20051	203	543	6.29711	184	593	6.38519	169
444	6.09582	225	494	6.20254	202	544	6.29895	184	594	6.38688	168
445	6.09807	225	495	6.20456	202	545	6.30079	183	595	6.38856	168
446	6.10032	224	496	6.20658	202	546	6.30262	183	596	6.39024	168
447	6.10256	224	497	6.20859	201	547	6.30445	183	597	6.39192	168
448	6.10479	223	498	6.21060	201	548	6.30628	182	598	6.39359	167
449	6.10702	223	499	6.21261	200	<b>5</b> 49	6.30810	182	599	6.39526	167
450	6.10925	222	500	6.21461	200	550	6.30992	182	600	6.39693	167
e×	X	e—x	e×	X	e —×	e×	X	e-x	e×	X	e <sup>—x</sup>

	U	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	logeu	ω F <sub>0</sub> ′	u	logeu	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′
	600	6.39693	167	650	6.47697	154	700	6.55108	143	750	6.62007	133
	601	6.39859	166	651	6.47851	154	701	6.55251	143	751	6.62141	133
	602	6.40026	166	652	6.48004	153	702	6.55393	142	752	6.62274	133
	603	6.40192	166	653	6.48158	153	703	6.55536	142	753	6.62407	133
	604	6.40357	166	654	6.48311	153	704	6.55678	142	754	6.62539	133
11/2/2018	605	6.40523	165	655	6.48464	153	705	6.55820	142	755	6.62672	132
	606	6.40688	165	656	6.48616	152	706	6.55962	142	756	6.62804	132
	607	6.40853	165	657	6.48768	152	707	6.56103	141	757	6.62936	132
	608	6.41017	164	658	6.48920	152	708	6.56244	141	758	6.63068	132
	609	6.41182	164	659	6.49072	152	709	6.56386	141	759	6.63200	132
	610	6.41346	164	660	6.49224	152	710	6.56526	141	760	6.63332	132
	611	6.41510	164	661	6.49375	151	711	6.56667	141	761	6.63463	131
	612	6.41673	163	662	6.49527	151	712	6.56808	140	762	6.63595	131
	613	6.41836	163	663	6.49677	151	713	6.56948	140	763	6.63726	131
	614	6.41999	163	664	6.49828	151	714	6.57088	140	764	6.63857	131
	615	6.42162	163	665	6.49979	150	715	6.57228	140	765	6.63988	131
	616	6.42325	162	666	6.50129	150	716	6.57368	140	766	6.64118	131
	617	6.42487	162	667	6.50279	150	717	6.57508	139	767	6.64249	130
	618	6.42649	162	668	6.50429	150	718	6.57647	139	768	6.64379	130
	619	6.42811	162	669	6.50578	149	719	6.57786	139	769	6.64509	130
	620 621 622 623 624	6.42972 6.43133 6.43294 6.43455 6.43615	160 161 161 161	670 671 672 673 674	6.50728 6.50877 6.51026 6.51175 6.51323	149 149 149 149 148	720 721 722 723 724	6.57925 6.58064 6.58203 6.58341 6.58479	139 139 139 138 138	770 771 772 773 774	6.64639 6.64769 6.64898 6.65028 6.65157	130 130 130 129 129
	625	6.43775	160	675	6.51471	148	725	6.58617	138	775	6.65286	129
	626	6.43935	160	676	6.51619	148	726	6.58755	138	776	6.65415	129
	627	6.44095	159	677	6.51767	148	727	6.58893	138	777	6.65544	129
	628	6.44254	159	678	6.51915	147	728	6.59030	137	778	6.65673	129
	629	6.44413	159	679	6.52062	147	729	6.59167	137	779	6.65801	128
	630	6.44572	159	680	6.52209	147	730	6.59304	137	780	6.65929	128
	631	6.44731	158	681	6.52356	147	731	6.59441	137	781	6.66058	128
	632	6.44889	158	682	6.52503	147	732	6.59578	137	782	6.66185	128
	633	6.45047	158	683	6.52649	146	733	6.59715	136	783	6.66313	128
	634	6.45205	158	684	6.52796	146	734	6.59851	136	784	6.66441	128
	635	6.45362	157	685	6.52942	146	735	6.59987	136	785	6.66568	127
	636	6.45520	157	686	6.53088	146	736	6.60123	136	786	6.66696	127
	637	6.45677	157	687	6.53233	146	737	6.60259	136	787	6.66823	127
	638	6.45834	157	688	6.53379	145	738	6.60394	136	788	6.66950	127
	639	6.45990	156	689	6.53524	145	739	6.60530	135	789	6.67077	127
	640	6.46147	156	690	6.53669	145	740	6.60665	135	790	6.67203	127
	641	6.46303	156	691	6.53814	145	741	6.60800	135	791	6.67330	126
	642	6.46459	156	692	6.53959	145	742	6.60935	135	792	6.67456	126
	643	6.46614	156	693	6.54103	144	743	6.61070	135	793	6.67582	126
	644	6.46770	155	694	6.54247	144	744	6.61204	134	794	6.67708	126
	645	6.46925	155	695	6.54391	144	745	6.61338	134	795	6.67834	126
	646	6.47080	155	696	6.54535	144	746	6.61473	134	796	6.67960	126
	647	6.47235	155	697	6.54679	143	747	6.61607	134	797	6.68085	125
	648	6.47389	154	698	6.54822	143	748	6.61740	134	798	6.68211	125
	649	6.47543	154	699	6.54965	143	749	6.61874	134	799	6.68336	125
	650	6.47697	154	700	6.55108	143 e-x	750	6.62007	133	800	6.68461	125
l	€ <sup>×</sup>	X	6-×	ex	X	e^	e×	X	e×	ex	X	e <sup>—x</sup>

				Natui	al Lo		18 (55727) <b>ms.</b>		gy man	i saran	
u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F <sub>0</sub> ′	u	log <sub>e</sub> u	ω F₀′	u	logeu	ω F <sub>0</sub> ′
800 801 802 803 804	6.68461 6.68586 6.68711 6.68835 6.68960	125 125 125 125 125 124	850 851 852 853 854	6.74524 6.74641 6.74759 6.74876 6.74993	118 118 117 117	900 901 902 903 904	6.80239 6.80351 6.80461 6.80572 6.80683	III III III III	950 951 952 953 954	6.85646 6.85751 6.85857 6.85961 6.86066	105 105 105 105 105
805 806 807 808 809	6.69084 6.69208 6.69332 6.69456 6.69580	. 124 124 124 124 124	855 856 857 858 859	6.75110 6.75227 6.75344 6.75460 6.75577	117 117 117 117 116	905 906 907 908 909	6.80793 6.80904 6.81014 6.81124 6.81235	110 110 110 110	955 956 957 958 959	6.86171 6.86276 6.86380 6.86485 6.86589	105 105 104 104 104
810 811 812 813 814	6.69703 6.69827 6.69950 6.70073 6.70196	123 123 123 123 123	860 861 862 863 864	6.75693 6.75809 6.75926 6.76041 6.76157	116 116 116 116	910 911 912 913 914	6.81344 6.81454 6.81564 6.81674 6.81783	110 110 110 109	960 961 962 963 964	6.86693 6.86797 6.86901 6.87005 6.87109	104 104 104 104 104
815 816 817 818 819	6.70319 6.70441 6.70564 6.70686 6.70808	123 123 122 122 122	865 866 867 868 869	6.76273 6.76388 6.76504 6.76619 6.76734	116 115 115 115 115	915 916 917 918 919	6.81892 6.82002 6.82111 6.82220 6.82329	109 109 109 109	965 966 967 968 969	6.87213 6.87316 6.87420 6.87523 6.87626	104 104 103 103 103
820 821 822 823 824	6.70930 6.71052 6.71174 6.71296 6.71417	122 122 122 122 121	870 871 872 873 874	6.76849 6.76964 6.77079 6.77194 6.77308	115 115 115 115 114	920 921 922 923 924	6.82437 6.82546 6.82655 6.82763 6.82871	109 108 108 108	970 971 972 973 974	6.87730 6.87833 6.87936 6.88038 6.88141	103 103 103 103 103
825 826 827 828 829	6.71538 6.71659 6.71780 6.71901 6.72022	121 121 121 121 121	875 876 877 878 879	6.77422 6.77537 6.77651 6.77765 6.77878	114 114 114 114 114	925 926 927 928 929	6.82979 6.83087 6.83195 6.83303 6.83411	108 108 108 108	975 976 977 978 979	6.88244 6.88346 6.88449 6.88551 6.88653	103 102 102 102 102
830 831 832 833 834	6.72143 6.72263 6.72383 6.72503 6.72623	120 120 120 120 120	880 881 882 883 884	6.77992 6.78106 6.78219 6.78333 6.78446	114 114 113 113 113	930 931 932 933 934	6.83518 6.83626 6.83733 6.83841 6.83948	108 107 107 107 107	980 981 982 983 984	6.88755 6.88857 6.88959 6.89061 6.89163	102 102 102 102 102
835 836 837 838 839	6.72743 6.72863 6.72982 6.73102 6.73221	120 120 119 119 119	885 886 887 888 889	6.78559 6.78672 6.78784 6.78897 6.79010	113 113 113 113 112	935 936 937 938 939	6.84055 6.84162 6.84268 6.84375 6.84482	107 107 107 107 106	985 986 987 988 989	6.89264 6.89366 6.89467 6.89568 6.89669	101 101 101 101 103
840 841 842 843 844	6.73340 6.73459 6.73578 6.73697 6.73815	119 119 119 118	890 891 892 893 894	6.79122 6.79234 6.79347 6.79459 6.79571	112 112 112 112 112	940 941 942 943 944	6.84588 6.84694 6.84801 6.84907 6.85013	106 106 106 106	990 991 992 993 994	6.89770 6.89871 6.89972 6.90073 6.90174	101 101 101
845 846 847 848 849	6.73934 6.74052 6.74170 6.74288 6.74406	118 118 118 118	895 896 897 898 899	6.79682 6.79794 6.79906 6.80017 6.80128	112 112 111 111 111	945 946 947 948 949	6.85118 6.85224 6.85330 6.85435 6.85541	106 106 106 105 105	995 996 997 998 999	6.90274 6.90375 6.90475 6.90575 6.90675	101 100 100 100
850	6.74524	118	900	6.80239	III	950	6.85646	105	1000	6.90776	100
ex	X	e—x	ex	x	e—×	6 <sub>X</sub>	at nakanana,	e×	ex	<b>X</b>	e—×

1009   6   6   1013   6   1019   6   1013   6   1019   6   1021   6   1031   6   1033   6   1039   6   1051   6   1051   6   1063   6   1069   6   1069   6   1069   7   7   1151   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1154   7   1155   7   7   1155   7   7   1151   7   7   11	6.90776 6.90776 6.91672 6.92658 6.92658 6.92654 6.93828 6.94601 6.95559 6.96697 6.96885 6.97448 6.99118 6.99118 6.99485 6.90633 6.00579 6.0121 6.0121 6.01366 6.02909 6.04839 6.05876 6.05876 6.05661 6.07412	1361 1367 1373 1381 1399 1409 1423 1429 1433 1439 1447 1451 1453 1459 1471 1481 1483 1489 1493 1493 1493 1511 1523 1531	7.21598 7.22037 7.22475 7.23056 7.24351 7.25064 7.26533 7.26473 7.26753 7.27170 7.27725 7.28001 7.28139 7.28551 7.29370 7.30047 7.30182 7.30452 7.30586 7.30854 7.37255 7.32053 7.32844 7.33368 7.34148	1721 1723 1733 1741 1747 1753 1759 1777 1783 1787 1789 1801 1811 1823 1831 1847 1861 1867 1871 1873 1879 1879 1879	7.45066 7.45182 7.45761 7.46221 7.46566 7.46908 7.47250 7.48268 7.48605 7.48829 7.48941 7.49610 7.50163 7.50824 7.51262 7.52132 7.52887 7.53209 7.53423 7.53530 7.53430 7.53849 7.54380 7.55014 7.55329	2111 2113 2129 2131 2137 2141 2143 2153 2161 2179 2203 2207 2213 2221 2237 2243 2251 2267 2269 2273 2281 2287 2293 2293 2293 2297	7.65492 7.65586 7.66341 7.66435 7.66906 7.67462 7.67833 7.68662 7.69758 7.69939 7.70210 7.70210 7.70217 7.71289 7.71378 7.71557 7.71913 7.72621 7.72709 7.72886 7.73237 7.73500 7.73762	2503 2521 2531 2539 2543 2543 2551 2557 2557 2591 2693 2697 2617 2633 2647 2657 2659 2663 2671 2683 2687 2687 2689 2693	7.82525 7.83241 7.83637 7.83953 7.84110 7.84346 7.845516 7.85980 7.86657 7.86657 7.86657 7.86578 7.88495 7.887131 7.88721 7.89021 7.89245 7.89618 7.89684
1009   6   6   1013   6   1019   6   1013   6   1019   6   1021   6   1031   6   1033   6   1039   6   1051   6   1051   6   1063   6   1069   6   1069   6   1069   7   7   1151   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1153   7   7   1154   7   1155   7   7   1155   7   7   1151   7   7   11	5.91672 5.92675 5.92658 5.92654 5.92854 5.93828 5.94022 5.94601 5.95559 5.95750 5.96697 5.96697 5.96885 5.99485 5.99485 5.99485 6.9948	1367 1373 1381 1399 1409 1423 1429 1433 1439 1447 1451 1453 1459 1471 1481 1481 1482 1493 1490 1511 1523 1531	7.22037 7.22475 7.22475 7.23056 7.24351 7.25064 7.26333 7.26473 7.26753 7.27170 7.27125 7.28001 7.28139 7.28551 7.29370 7.30047 7.30182 7.30452 7.30452 7.30586 7.30854 7.32553 7.32844 7.33368 7.34148	1723 1733 1741 1747 1753 1759 1777 1783 1787 1789 1801 1811 1823 1831 1847 1867 1871 1873 1871 1873 1879 1899 1901	7.45182 7.45761 7.46221 7.46566 7.46566 7.47250 7.48268 7.4805 7.48829 7.4801 7.50163 7.50824 7.51262 7.52887 7.53209 7.53423 7.53530 7.53743 7.53849 7.53743 7.53849 7.55014	2113 2129 2137 2141 2143 2153 2261 2279 2203 2221 2237 2221 2237 2243 2251 2269 2273 2281 2287 2293	7.65586 7.66341 7.66435 7.66906 7.66906 7.67462 7.67833 7.68662 7.69758 7.70210 7.70571 7.71289 7.71378 7.71557 7.71913 7.72621 7.72709 7.72886 7.72886 7.72886 7.72886 7.73500 7.73762	2521 2531 2539 2543 2549 2551 2557 2579 2591 2617 2621 2633 2647 2657 2659 2663 2677 2683 2683 2683	7.83241 7.83637 7.83953 7.84110 7.84346 7.84424 7.84652 7.85516 7.85980 7.86672 7.86978 7.87131 7.87588 7.88118 7.88495 7.88571 7.8921 7.89469 7.89692
1013 6 6 1019 6 1021 6 1033 6 1039 6 1051 6 1051 6 1051 6 1051 6 1051 6 1051 6 1051 6 1051 6 1051 7 7 1123 7 1123 7 7 1123 7 11	5.9267 5.92658 5.92854 5.92854 5.93828 5.94022 5.94601 5.95559 5.95750 5.96607 5.96885 5.99118 5.99485 5.99485 5.90668 7.000373 7.00121 7.002376 6.02376 6.02376 6.02376 6.02376 6.02376 6.02376 6.02376	1373 1381 1399 1409 1423 1427 1429 1433 1439 1447 1451 1453 1459 1471 1481 1483 1487 1489 1493 1511 1523 1531	7.22475 7.23056 7.24351 7.25064 7.26052 7.26333 7.26473 7.26753 7.27725 7.28001 7.28339 7.28551 7.29370 7.30452 7.30452 7.30452 7.30452 7.30586 7.30854 7.31255 7.32844 7.33368 7.34148	1733 1741 1747 1753 1759 1777 1783 1787 1789 1801 1811 1823 1831 1847 1861 1873 1871 1873 1879 1890 1901	7.45182 7.45761 7.46221 7.46566 7.46566 7.47250 7.48268 7.4805 7.48829 7.4801 7.50163 7.50824 7.51262 7.52887 7.53209 7.53423 7.53530 7.53743 7.53849 7.53743 7.53849 7.55014	2113 2129 2137 2141 2143 2153 2261 2279 2203 2221 2237 2221 2237 2243 2251 2269 2273 2281 2287 2293	7.65586 7.66341 7.66435 7.66906 7.66906 7.67462 7.67833 7.68662 7.69758 7.70210 7.70571 7.71289 7.71378 7.71557 7.71913 7.72621 7.72709 7.72886 7.72886 7.72886 7.72886 7.73500 7.73762	2521 2531 2539 2543 2549 2551 2557 2579 2591 2617 2621 2633 2647 2657 2659 2663 2677 2683 2683 2683	7.83241 7.83637 7.83953 7.84110 7.84424 7.84657 7.85510 7.86057 7.86072 7.86072 7.8672 7.8672 7.88495 7.88495 7.88211 7.8921 7.89469 7.89692
1019 6 6 1031 6 1033 6 1039 6 1051 6 1061 6 1063 6 1069 6 1087 6 1091 7 1103 7 1109 7 11151 7 1123 7	5.92658 5.92854 5.93828 5.94022 5.94601 5.95559 5.95750 5.96697 5.96885 5.99148 5.99148 5.99185 5.09579 6.00579 6.00579 6.00579 6.02376 6.02376 6.02376 6.02376 6.02376 6.02376	1373 1381 1399 1409 1423 1427 1429 1433 1439 1447 1451 1453 1459 1471 1481 1483 1487 1489 1493 1511 1523 1531	7.22475 7.23056 7.24351 7.25064 7.26052 7.26333 7.26473 7.26753 7.27725 7.28001 7.28339 7.28551 7.29370 7.30452 7.30452 7.30452 7.30452 7.30586 7.30854 7.31255 7.32844 7.33368 7.34148	1733 1741 1747 1753 1759 1777 1783 1787 1789 1801 1811 1823 1831 1847 1861 1873 1871 1873 1879 1890 1901	7.45761 7.46221 7.46566 7.46566 7.47250 7.48268 7.48605 7.48829 7.48941 7.49610 7.50163 7.50824 7.51262 7.52132 7.52132 7.53209 7.53423 7.53530 7.53743 7.53849 7.53849 7.55014	2129 21317 2141 2143 2153 2161 2179 2203 2207 2213 2221 2237 2243 2257 2269 2273 2281 2287 2293	7.66341 7.66435 7.66903 7.66996 7.67462 7.67833 7.68662 7.69758 7.69039 7.70210 7.70571 7.71289 7.71378 7.71913 7.72621 7.72621 7.72886 7.73237 7.73500 7.73500 7.73762	2531 2539 2543 2549 2551 2557 2557 2591 2693 2699 2617 2621 2633 2647 2657 2659 2663 2671 2683 2683 2683	7.83637 7.83953 7.84110 7.84346 7.84656 7.85586 7.86672 7.86672 7.8678 7.87588 7.88118 7.88495 7.88721 7.89021 7.89245 7.89469
1019 6 6 1031 6 1033 6 1039 6 1051 6 1061 6 1063 6 1069 6 1087 6 1091 7 1103 7 11123 7 1123 7	5.92658 5.92854 5.93828 5.94022 5.94601 5.95559 5.95750 5.96697 5.96885 5.99148 5.99148 5.99185 5.09579 6.00579 6.00579 6.00579 6.02376 6.02376 6.02376 6.02376 6.02376 6.02376	1381 1399 1409 1423 1427 1429 1433 1439 1447 1451 1453 1459 1471 1481 1483 1489 1493 1493 1511 1523 1531	7.23056 7.24351 7.25064 7.26052 7.26333 7.26473 7.26753 7.27725 7.28001 7.28139 7.28551 7.29370 7.30047 7.30182 7.30452 7.30586 7.30854 7.3253 7.32844 7.33368 7.34148	1741 1747 1753 1759 1777 1783 1787 1789 1801 1811 1823 1831 1847 1867 1871 1873 1879 1890 1901	7.46221 7.46566 7.46566 7.47250 7.48268 7.48605 7.48829 7.48941 7.49610 7.50163 7.50824 7.51262 7.52132 7.52887 7.53209 7.53423 7.53530 7.53743 7.53849 7.53480 7.55014	2131 2137 2141 2143 2153 2161 2179 2203 2207 2213 2221 2237 2243 2257 2269 2273 2281 2287 2293	7.66435 7.66716 7.66906 7.67462 7.67833 7.68662 7.69758 7.69039 7.70210 7.70571 7.71289 7.71378 7.71913 7.72621 7.7286 7.72886 7.73237 7.73500 7.73762	2539 2543 2549 2551 2557 2579 2591 2593 2609 2617 2633 2647 2657 2657 2663 2677 2683 2687 2683	7.83953 7.84110 7.84346 7.84424 7.84659 7.85516 7.86057 7.86072 7.86072 7.87588 7.88118 7.88495 7.88721 7.89221 7.89245 7.89692
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1061 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6.96697 6.96885 6.97448 6.99118 6.99485 6.99668 7.00033 7.01121 7.01840 7.02376 7.02009 7.04839 7.05012 7.05876 7.06561	1439 1447 1451 1453 1459 1471 1481 1483 1487 1489 1493 1493 1511 1523 1531	7.27170 7.27725 7.28001 7.28139 7.28551 7.29370 7.30047 7.30182 7.30452 7.30452 7.30586 7.30854 7.31255 7.32053 7.32844 7.33368 7.34148	1789 1801 1811 1823 1831 1847 1861 1867 1871 1873 1877 1879 1889 1901 1907	7.48941 7.49610 7.50163 7.50824 7.51262 7.52132 7.52887 7.53209 7.53423 7.53530 7.53743 7.53849 7.54380 7.55014	2203 2207 2213 2221 2237 2243 2251 2267 2269 2273 2281 2287 2293	7.69758 7.69939 7.70210 7.70271 7.71289 7.71378 7.71557 7.71913 7.72621 7.72709 7.72886 7.73237 7.73500 7.73762	2593 2609 2617 2621 2633 2647 2657 2659 2663 2671 2683 2687 2683	7.86057 7.86672 7.86672 7.87131 7.87588 7.88118 7.88495 7.88571 7.89721 7.89021 7.89469 7.89692
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1103 7. 1109 7. 1117 7. 1123 7. 1129 7. 1151 7. 1153 7. 1163 7. 117 7. 1181 7. 1181 7. 1181 7. 1183 7. 1193 7. 12223 7. 12223 7. 12223 7. 12223 7. 12229 7. 12237 7. 12249 7.	7.00579 7.01121 7.01840 7.02376 7.02909 7.04839 7.05012 7.05876	1483 1487 1489 1493 1490 1511 1523 1531	7.30182 7.30452 7.30586 7.30854 7.31255 7.32053 7.32844 7.33368 7.34148	1867 1871 1873 1877 1879 1889 1901 1907	7.53209 7.53423 7.53530 7.53743 7.53849 7.54380 7.55014	2251 2267 2269 2273 2281 2287 2293	7.71913 7.72621 7.72709 7.72886 7.73237 7.73500 7.73762	2659 2663 2671 2677 2683 2687 2689	7.88571 7.88721 7.89021 7.89245 7.89469 7.89618 7.89692
1109 7. 1117 7. 1123 7. 1129 7. 1151 7. 1153 7. 1163 7. 1171 7. 1181 7. 1181 7. 1181 7. 1201 7. 12213 7. 12223 7. 12223 7. 1223 7. 12249 7.	.01121 .01840 .02376 .02909 .04839 .05012 .05876	1487 1489 1493 1499 1511 1523 1531	7.30452 7.30586 7.30854 7.31255 7.32053 7.32844 7.33368 7.34148	1871 1873 1877 1879 1889 1901 1907	7.53423 7.53530 7.53743 7.53849 7.54380 7.55014	2267 2269 2273 2281 2287 2293	7.72621 7.72709 7.72886 7.73237 7.73500 7.73762	2663 2671 2677 2683 2687 2689	7.88721 7.89021 7.89245 7.89469 7.89618 7.89692
1117 7. 1123 7. 1129 7. 1151 7. 1153 7. 1163 7. 1161 7. 1181 7. 1181 7. 1181 7. 1201 7. 1221 7. 12223 7. 12223 7. 12237 7. 12249 7.	7.02376 7.02909 7.04839 7.05012 7.05876	1489 1493 1499 1511 1523 1531	7.30586 7.30854 7.31255 7.32053 7.32844 7.33368 7.34148	1873 1877 1879 1889 1901 1907	7 · 53530 7 · 53743 7 · 53849 7 · 54380 7 · 55014	2269 2273 2281 2287 2293	7.72709 7.72886 7.73237 7.73500 7.73762	2671 2677 2683 2687 2689	7.89021 7.89245 7.89469 7.89618 7.89692
1123 7. 1129 7. 1151 7. 1153 7. 1163 7. 11681 7. 11887 7. 1193 7. 1201 7. 12213 7. 12223 7. 1223 7. 1223 7. 12249 7.	7.02376 7.02909 7.04839 7.05012 7.05876	1493 1499 1511 1523 1531	7.30854 7.31255 7.32053 7.32844 7.33368 7.34148	1877 1879 1889 1901 1907	7.53743 7.53849 7.54380 7.55014	2273 2281 2287 2293	7.72886 7.73237 7.73500 7.73762	2677 2683 2687 2689	7.89245 7.89469 7.89618 7.89692
1129 7. 1151 7. 1153 7. 1153 7. 1163 7. 1171 7. 1181 7. 1181 7. 1193 7. 1201 7. 12213 7. 12223 7. 12223 7. 1223 7. 12249 7.	.02909 .04839 .05012 .05876	1499 1511 1523 1531	7.31255 7.32053 7.32844 7.33368 7.34148	1879 1889 1901 1907	7.53849 7.54380 7.55014	2281 2287 2293	7.73237 7.73500 7.73762	2683 2687 2689	7.89469 7.89618 7.89692
1151 7. 1153 7. 1153 7. 1153 7. 1163 7. 1171 7. 1181 7. 1187 7. 1201 7. 12213 7. 12223 7. 1223 7. 1233 7. 1237 7. 1249 7.	.04839 .05012 .05876	1511 1523 1531 1543	7.32053 7.32844 7.33368 7.34148	1889 1901 1907	7.53849 7.54380 7.55014	2287 2293	7.73500 7.73762	2687 2689	7.89618 7.89692
1153 7. 1163 7. 1171 7. 1181 7. 1182 7. 1193 7. 1201 7. 1213 7. 1223 7. 1223 7. 1231 7. 1249 7.	.05012 .05876	1523 1531 1543	7.32844 7.33368 7.34148	1901 1907	7.54380 7.55014	2293	7.73500 7.73762	2689	7.89692
1163 7. 1171 7. 1181 7. 1183 7. 1193 7. 1201 7. 1213 7. 1223 7. 1223 7. 1223 7. 1237 7. 1249 7.	.05876	1531 1543	7.33368 7.34148	1907	7.55014	2293	7.73762	2689	7.89692
1171 7. 1181 7. 1187 7. 1193 7. 1201 7. 1213 7. 1217 7. 1223 7. 1231 7. 1237 7. 1249 7.	.06561	1543	7.34148						
1181 7. 1187 7. 1193 7. 1201 7. 1213 7. 1223 7. 1223 7. 1223 7. 1237 7. 1249 7.				7070			7.73936	2093	5-4-
1181 7. 1187 7. 1193 7. 1201 7. 1213 7. 1223 7. 1223 7. 1223 7. 1237 7. 1249 7.				1913	7.55643	2309	7 • 74457	2699	7.90064
187 7. 193 7. 201 7. 2213 7. 2217 7. 2223 7. 2231 7. 2237 7. 2249 7.	.0/414		7.34536	1931	7.56579	2311	7.74544	2707	7.90360
193 7. 201 7. 213 7. 2217 7. 223 7. 229 7. 231 7. 237 7. 249 7.	.07918	1553	7 - 34794	1933	7.56683			2711	7.90507
201 7. 213 7. 2217 7. 223 7. 229 7. 231 7. 237 7. 249 7.	.08423	1559	7.35180	1949	7.57507	2333	7.75491 7.75748		7.90581
217 7. 223 7. 229 7. 231 7. 237 7. 249 7.	.09091	1567	7.35692	1951	7.57610	2339 2341	7.75833	2713 2719	7.90802
217 7. 223 7. 229 7. 231 7. 237 7. 249 7.	. 10085	1571	7.35947	1973	= =0===				<b>=</b> 07760
223 7. 229 7. 231 7. 237 7. 249 7.	10414	1579	7.36455	1979	7.58731	2347	7.76089	2729	7.911169
229 7. 231 7. 237 7. 249 7.	10906	1583	7.36708	1987	7.59035	2351	7.76260	2731	7.91242
23I 7. 237 7. 249 7.	.11396	1597	7.37588	1993	7.59438	2357	7.76514	2741	7.91608
237 7. 249 7.	.11558	1601	7.37838	1997	7.59740 7.59940	2371 2377	7.77107 7.77359	2749 2753	7.91899 7.92045
249 7.		1607	7.38212						민을 취득 뛰
	12044		7.30212	1999	7.60040	2381	7.77528	2767	7.92552
	.13010	1609	7.38337	2003	7.60240	2383	7.77612	2777	7.92913
	13807	1613	7.38585	2011	7.60639	2389	7.77863	2789	7.93344
	.15227	1619	7.38956	2017	7.60937	2393	7.78030	2791	7.93416
279 7.	.15383	1621	7.39080	2027	7.61431	2399	7.78281	2797	7.93630
283 7.	. 15696	1627	7.39449	2029	7.61530	2411	7.78780	2801	7.93773
1289 7.	. 16162	1637	7.40062	2039	7.62021	2417	7.79028	2803	7.93845
291 7.	. 16317	1657	7.41276	2053	7.62706	2423	7.79276	2819	7.94414
297 7.	. 16 <i>7</i> 81	1663	7.41638	2063	7.63192	2437	7.79852	2833	7 94909
301 7.	17089	1667	7.41878	2069	7.63482	2441	7.80016	2837	7.95050
303 7	.17.242	1669	7.41998	2081	7.64060	2447	7.80262	2843	7.95262
1307 7	.17549	1693	7.43426	2083	7.64156	2459	7.80751	2851	7.95543
		1697	7.43662	2087	7.64348	2467	7.81076	2857	7.95753
	. 18463	1699	7.43780	2089	7.64444	2473	7.81319	2861	7.95893
		~~~	7.44366	2099	7.64922	2477	7.81480	2879	7.96520
	. 18463	1709	7.44500						puratur literatura. Por en primitable
e×	. 18463 . 18614		7.44500					i	

ц	Logeu	u	Log <sub>e</sub> u	ii I	Log <sub>e</sub> u	U	Log <sub>e</sub> u	u	Log <sub>e</sub> u
2887	7.96797	3323	8.10862	3709	8.21852	4129	8.32579	4561	8.42530
2897	7.97143	3329	8.11043	3719	8.22121	4133	8.32676	4567	8.42661
2903	7.97350	3331	8.11103	3727	8.22336	4139	8.32821	4583	8.43011
2909	7.97556	3343	8.11462	3733	8.22497	4153	8.33159	4591	8.43185
2917	7.97831	3347	8.11582	3739	8.22657	4157	8.33255	4597	8.43316
2927	7.98173	3359	8.11940	3761	8.23244	4159	8.33303	4603	8.43446
2959	7.98582	3361	8.11999	3767	8.23403	4177	8.33735	4621	8.43837
2953	7.99058	3371	8.12296	3769	8.23456	4201	8.34308	4637	8.44182
2957	7.99193	3373	8.12356	3779	8.23721	4211	8.34546	4639	8.44225
2963	7.99396	3389	8.12829	3793	8.24091	4217	8.34688	4643	8.44312
2969	7.99598	3391	8.12888	3797	8.24197	4219	8.34735	4649	8.44441
2971	7.99665	3407	8.13359	3803	8.24355	4229	8.34972	4651	8.44484
2999	8.00603	3413	8.13535	3821	8.24827	4231	8.35019	4657	8.44613
3001	8.00670	3433	8.14119	3823	8.24879	4241	8.35255	4663	8.44741
3011	8.01003	3449	8.14584	3833	8.25140	4243	8.35303	4673	8.44956
3019	8.01268	3457	8.14816	3847	8.25505	4253	8.35538	4679	8.45084
3023	8.01400	3461	8.14931	3851	8.25609	4259	8.35679	4691	8.45340
3037	8.01863	3463	8.14989	3853	8.25661	4261	8.35726	4703	8.45596
3041	8.01994	3467	8.15104	3863	8.25920	4271	8.35960	4721	8.45978
3049	8.02257	3469	8.15162	3777	8.26282	4273	8.36007	4723	8.46020
3061	8.02650	3491	8.15794	3881	8.26385	4283	8.36241	4729	8.46147
3067	8.02846	3499	8.16023	3889	8.26591	4289	8.36381	4733	8.46231
3079	8.03236	3511	8.16366	3907	8.27053	4297	8.36567	4751	8.46611
3083	8.03366	3517	8.16536	3911	8.27155	4327	8.37263	4759	8.46779
3089	8.03560	3527	8.16820	3917	8.27308	4337	8.37494	4783	8.47282
3109	8.04206	3529	8.16877	3919	8.27359	4339	8.37540	4787	8.47366
3119	8.04527	3533	8.16990	3923	8.27461	4349	8.37770	4789	8.47408
3121	8.04591	3539	8.17160	3929	8.27614	4357	8.37954	4793	8.47491
3137	8.05102	3541	8.17216	3931	8.27665	4363	8.38092	4799	8.47616
3163	8.05928	3547	8.17386	3943	8.27970	4373	8.38320	4801	8.47658
3167	8.06054	3557	8.17667	3947	8.28071	4391	8.38731	4813	8.47908
3169	8.06117	3559	8.17723	3967	8.28577	4397	8.38868	4817	8.47991
3181	8.06495	3571	8.18060	3989	8.29130	4409	8.39140	4831	8.48281
3187	8.06684	3581	8.18340	4001	8.29430	4421	8.39412	4861	8.48900
3191	8.06809	3583	8.18396	4003	8.29480	4423	8.39457	4871	8.49105
3203 3209 3217 3221 3229	8.07184 8.07371 8.07620 8.07745 8.07993	3593 3607 3613 3617 3623	8.18674 8.19063 8.19229 8.19340 8.19506	4007 4013 4019 4021 4027	8.29580 8.29729 8.29879 8.29929 8.30078	4447 4451 4457 4463	8.39863 8.39998 8.40088 8.40223 8.40358	4877 4889 4903 4909 4919	8.49229 8.49474 8.49760 8.49883 8.50086
3251	8.08672	3631	8.19726	4049	8.30623	4481	8.40760	4931	8.50330
3253	8.08733	3637	8.19891	4051	8.30672	4483	8.40805	4933	8.50370
3257	8.08856	3643	8.20056	4057	8.30820	4493	8.41028	4937	8.50451
3259	8.08918	3659	8.20495	4073	8.31214	4507	8.41339	4943	8.50573
3271	8.09285	3671	8.20822	4079	8.31361	4513	8.41472	4951	8.50734
3299	8. 10137	3673	8.20876	4091	8.31654	4517	8.41560	4957	8.50856
3301	8. 10198	3677	8.20985	4093	8.31703	4519	8.41605	4967	8.51057
3307	8. 10380	3691	8.21365	4099	8.31850	4523	8.41693	4969	8.51097
3313	8. 10561	3697	8.21528	4111	8.32142	4547	8.42222	4973	8.51178
3319	8. 10742	3701	8.21636	4127	8.32531	4549	8.42266	4987	8.51459
ex	×	ex	x	6x.	×	e×	X	e <sup>x</sup>	X

	и	Logeu	u	Log <sub>e</sub> u	U Market	Log <sub>e</sub> u	· u · · · · · · · · · · · · · · · · · ·	Log <sub>e</sub> u	u	Logeu
	4993	8.51579	5437	8.60098	5849	8.67403	6287	8.74624	6733	8.81478
	4999	8.51699	5441	8.60172	5851	8.67437	6299	8.74815	6737	8.81537
	5003	8.51779	5443	8.60209	5857	8.67539	6301	8.74846	6761	8.31893
	5009	8.51899	5449	8.60319	5861	8.67608	6311	8.75005	6763	8.81922
	5011	8.51939	5471	8.60722	5867	8.67710	6317	8.75100	6779	8.82158
	5021	8.52138	5477	8.60831	5869	8.67744	6323	8.75195	6781	8.82188
	5023	8.52178	5479	8.60868	5879	8.67914	6329	8.75290	6791	8.82335
	5039	8.52496	5483	8.60941	5881	8.67948	6337	8.75416	6793	8.82365
	5051	8.52734	5501	8.61269	5897	8.68220	6343	8.75511	6803	8.82512
	5059	8.52892	5503	8.61305	5903	8.68322	6353	8.75668	6823	8.82805
	5077	8.53248	5507	8.61378	5923	8.68660	6359	8.75763	6827	8.82864
	5081	8.53326	5519	8.61595	5927	8.68727	6361	8.75794	6829	8.82893
	5087	8.53444	5521	8.61631	5939	8.68930	6367	8.75888	6833	8.82952
	5099	8.53680	5527	8.61740	5953	8.69165	6373	8.75983	6841	8.83069
	5101	8.53719	5531	8.61812	5981	8.69634	6379	8.76077	6857	8.83303
	5107	8.53837	5557	8.62281	5987	8.69735	6389	8.76233	6863	8.83390
	5113	8.53954	5563	8.62389	6007	8.70068	6397	8.76358	6869	8.83477
	5119	8.54071	5569	8.62497	6011	8.70135	6421	8.76733	6871	8.83506
	5147	8.54617	5573	8.62569	6029	8.70434	6427	8.76826	6883	8.83681
	5153	8.54733	5581	8.627112	6037	8.70566	6449	8.77168	6889	8.83768
6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5167	8.55005	5591	8.62891	6043	8.70666	6451	8.77199	6907	8.84029
	5171	8.55082	5623	8.63462	6047	8.70732	6469	8.77478	6911	8.84087
	5179	8.55237	5639	8.63746	6053	8.70831	6473	8.77539	6917	8.84174
	5189	8.55430	5641	8.63782	6067	8.71062	6481	8.77663	6947	8.84607
	5197	8.55584	5647	8.63888	6073	8.71161	6491	8.77817	6949	8.84635
51 1 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	5209	8.55814	5651	8.63959	6079	8.71260	6521	8.78278	6959	8.84779
	5227	8.56159	5653	8.63994	6089	8.71424	6529	8.78401	6961	8.84808
	5231	8.56236	5657	8.64065	6091	8.71457	6547	8.78676	6967	8.84894
	5233	8.56274	5659	8.64100	6101	8.71621	6551	8.78737	6971	8.84951
	5237	8.56350	5669	8.64277	6113	8.71817	6553	8.78768	6977	8.85037
	5261	8.56808	5683	8.64523	6121	8.71948	6563	8.78920	6983	8.85123
	5273	8.57035	5689	8.64629	6131	8.72111	6569	8.79012	6991	8.85238
	5279	8.57149	5693	8.64699	6133	8.72144	6571	8.79042	6997	8.85324
	5281	8.57187	5701	8.64840	6143	8.72307	6577	8.79133	7001	8.85381
	5297	8.57490	5711	8.65015	6151	8.72437	6581	8.79194	7013	8.85552
	5303	8.57603	5717	8.65120	6163	8.72632	6599	8.79467	7019	8.85638
	5309	8.57716	5737	8.65469	6173	8.72794	6607	8.79588	7027	8.85752
	5323	8.57979	5741	8.65539	6197	8.73182	6619	8.79770	7039	8.85922
	5333	8.58167	5743	8.65574	6199	8.73214	6637	8.80042	7043	8.85979
	5347	8.58429	5749	8.65678	6203	8.73279	6653	8.80282	7057	8.86178
는 보통하는 것 같은 것이다. 	5351 5381 5387 5393 5399	8.58504 8.59063 8.59174 8.59286 8.59397	5779 5783 5791 5801 5807	8.66199 8.66268 8.66406 8.66579 8.66682	6211 6217 6221 6229 6247	8.73408 8.73504 8.73569 8.73697 8.73986	6659 6661 6673 6679 6689	8.80372 8.80402 8.80582 8.80672 8.80822	7069 7079 7103 7109 7121	8.86347 8.86489 8.86827 8.86912 8.87080
ign (Christial) English (Turk)	5407	8.59545	5813	8.66785	6257	8.74146	6691	8.80852	7127	8.87165
	5413	8.59656	5821	8.66923	6263	8.74241	6701	8.81001	7129	8.87193
	5417	8.59730	5827	8.67026	6269	8.74337	6703	8.81031	7151	8.87501
	5419	8.59767	5839	8.67231	6271	8.74369	6709	8.81121	7159	8.87613
	5421	8.59988	5843	8.67300	6277	8.74465	6719	8.81269	7177	8.87864
100 CM	ex	x	в×	X	ex	x	ex	X	e <sub>x</sub>	X

u	Logeu	u	Logeu	и	Log <sub>e</sub> u	u	Logeu	u	Log <sub>e</sub> u
_									<u></u>
7187 7193	8.88003 8.88086	7621 7639	8.93866 8.94102	8093 8101	8.99875 8.99974	8573 8581	9.05637 9.05731	900I 9007	9.10509 9.10576
7207	8.88281	7643	8.94155	8111	9.00098	8597	9.05917	9011	9.10620
7211 7213	8.88336 8.88364	7649 7669	8.94233 8.94494	8117 8123	9.00172 9.00245	8599 8609	9.05940 9.06056	9013 9029	9.10642 9.10820
7219	8.88447	<i>7</i> 673	8.94546	8147	9.00541	8623	9.06219	9041	9.10953
7229	8.88586	7681	8.94651	8161	9.00712	8627	9.06265	9043	9.10975
7237 7243	8.88696 8.88779	7687 7691	8.947/29 8.94781	8167 8171	9.00786 9.00835	8629 8641	9.06288 9.06427	9049 9059	9.11041 9.11151
7247	8.88834	7699	8.94885	8179	9.00033	8647	9.06497	9067	9.11240
7253	8.88917 8.89330	7703	8.94937 8.95118	8191 8209	9.01079	8663	9.06682	9091	9.11504
7283 7297	8.89522	7717 7723	8.95116	8219	9.01299 9.01420	8669 8677	9.06751 9.06843	9103 9109	9.11636 9.11702
7307	8.89659	7727	8.95248	8221	9.01445	8681	9.06889	9127	9.11899
7309	8.89686	<i>77</i> 41	8.95429	8231	9.01566	8689	9.06981	9133	9.11965
7321	8.89850 8.89987	7753	8.95584 8.95635	8233 8237	9.01591	8693	9.07027	9137 9151	9.12009
733 <sup>1</sup> 7333	8.90014	7757 7759	8.95661	8243	9.01639 9.01712	8699 8707	9.07096 9.07188	9157	9.12162 9.12227
7349	8.90232	7789	8.96047	8263	9.01954	8713	9.07257	9161	9.12271
735 <sup>I</sup>	8.90259	7793	8.96098	8269	9.02027	8719	9.07326	9173	9.12402
7369 7393	8.90504 8.90829	7817 7823	8.96406 8.96482	8273 8287	9.02075 9.02244	8731 8737	9.07464 9.07532	9181 9187	9.12489 9.12554
7393 7411	8.91072	7829	8.96559	8291	9.02244	8741	9.07578	9199	9.12685
7417	8.91153	7841	8.96712	8293	9.02317	8747	9.07647	9203	9.12728
7433	8.91368	7853	8.96765	8297	9.02365	8753	9.07715	9209	9.12794
7451 7457	8.91610 8.91691	7867 7873	8.97043 8.97119	8311 8317	9.02534 9.02606	8761 8779	9.07807 9.08012	9221 9227	9.12924
7459	8.91718	7877	8.97170	8329	9.02750	8783	9.08057	9239	9.13119
7477 7481	8.91959 8.92012	7879 7883	8.97196 8.97246	8353 8363	9.03038 9.03157	8803 8807	9.08285	9241 9257	9.13141 9.13314
7487	8.92092	790I	8.97474	8369		8819	9.08466		
7489	8.92119	7901 7907	8.97550	8377	9.03229 9.03325	8821	9.08489	9277 ° 9281	9.13529 9.13572
7499	8.92252	7919	8.97702	8387	9.03444	8831	9.08602	9283	9.13594
7507 7517	8.92359 8.92492	7927 7933	8.97803 8.97879	8389 8419	9.03468 9.03825	8837 8839	9.08670 9.08693	9293 9311	9.13702 9.13895
7523	8.92572	<b>7</b> 937	8.97929	8423	9.03872	8849	9.08806	9319	9.13981
7529	8.92652	7949	8.08080	8429	9.03943	· 8861	9.08941	9323	9.14024
7537 7541	8.92758 8.92811	7951 7963	8.98105 8.98256	8431 8443	9.03967 9.04109	8863 8867	9.08964	9337 9341	9.141 <i>7</i> 4 9.1421 <i>7</i>
7547	8.92891	7993	8.98632	8447	9.04157	8887	9.09234	9343	9.14238
7549	8.92917	8009	8.98832	8461	9.04322	8893	9.09302	9349	9.14302
7559 7561	8.93049 8.93076	8011 8017	8.98857 8.98932	8467 8501	9.04393 9.04794	8923 8929	9.09639 9.09706	9371 9377	9. 14538 9. 14602
7573	8.93234	8039	8.99206	8513	9.04/94	8933	9.09751	9377	9.14751
7577	8.93287	8053	8.99380	8521	9.05029	8941	9.09840	9397	9.14815
7583 7589	8.93366 8.93446	8059 8069	8.99454 8.99578	8527 8537	9.05099 9.05216	8951 8963	9.09952 9.10086	9403 9413	9.14878 9.14985
759I	8.93472	8081	8.99727	8539	9.05240	8969	9.10153	9419	9.15048
7603 7607	8.93630 8.93682	8087 8089	8.99801 8.99826	8543 8563	9.05287 9.05521	8971 8999	9.10175 9.10487	9421 9431	9.15070 9.15176
e×	×	ex	x	ex	×	ex	x	ex	· Nagar Marata Mara
	] "		•	CONTRACTOR OF THE PARTY OF	n anno anno anno anno anno anno anno an	events of this presented.			

#### Natural Logarithms.

u	Logeu	u	Log <sub>e</sub> u	u	Log <sub>e</sub> u	u	Logeu	u	Log <sub>e</sub> u
		:	1,711 to 1,444						
9433	9.15197	9551	9.16440	9719	9.18184	9833	9.19350	9967	9.20703
9437	9.15239	9587	9.16816	97/21	9.18204	9839	9.19411	9973	9.20764
9439	9.15261	96 <b>0</b> 1	9.16962	9733	9.18328	9851	9.19533	10000	9.21034
9461	9.15493	9613	9.17087	9739	9.18389	9857	9.19594	100000	11.51293
9463	9.15514	9619	9.17150	9743	9.18430	9859	9.19614		
		_						1	
9467	9.15557	9623	9.17191	9749	9.18492	9871	9.19736		
9473	9.15620	9629	9.17253	9767	9.18676	9883	9.19857		
9479	9.15683	9631	9.17274	9769	9.18697	9887	9.19898		
9491	9.15810	9643	9.17399	9781	9.18820	9901	9.20039		
9497	9.15873	9649	9.1746I	9787	9.18881	9907	9.20100	D 1	
	6	~66 <del>-</del>	00-		0				
9511	9.16020	9661	9.17585	9791	9.18922	9923	9.20261		
9521	9.16126	9677	9.17751	9803	9.19044	9929	9.20322	- 21	
9533	9.16251	9679 9689	9.17771	9811	9.19126	9931	9.20342	Al .	* *.
9539	9.16314		9.17875	9817	9.19187	9941	9.20442		
9547	9.16398	9697	9.17957	9829	9.19309	9949	9.20523		
e×	×	e×	×	eх	X.	e×	; x .	ex	x

### Coefficients for Computing,

$$F_{\pm_n} \!\!=\! F_0 \!\!\pm\! n \omega \! \left[ \left. F'_0 \!\!\pm\! \frac{n}{2} \, \alpha_0 \!\!+\! \frac{n^2}{6} \, \beta_0 \!\!\pm\! \frac{n}{12} \left( \! \frac{n^2}{2} \!-\! 1 \right) \! \gamma_0 \right].$$

n	n <sup>2</sup> 6	Diff.	$\frac{n}{12}\left(\frac{n^2}{2}-1\right)$	Diff.	n	<u>n²</u> 6	Diff.	$\left \frac{n}{12}\left(\frac{n^2}{2}-1\right)\right $	Diff.
0.00 .01 .02 .03	+0.0000 .0000 .0001 .0002 .0003	0 I I I	-0.0000 .0008 .0017 .0025 .0033	8 988 9	0.25 .26 .27 .28 .29	+0.0104 .0113 .0122 .0131 .0140	9 9 9 9	-0.0202 0209 0217 0224 0232	78 78 78 7
0.05 .06 .07 .08	+0.0004 .0006 .0008 .0011 .0014	2 2 3 3 3	+0.0042 .0050 .0058 .0066 .0075	8 8 8 9 8	0.30 .31 .32 .33 .34	+0.0150 .0160 .0171 .0182 .0193	II II II IO	-0,0239 ,0246 ,0253 ,0260 ,0267	7 7 7 7 7
0.10 .11 .12 .13	+0.0017 .0020 .0024 .0028 .0033	3 4 4 5 5	-0.0083 .0091 .0099 .0107 .0116	8888	0.35 .36 .37 .38 .39	+0.0204 .0216 .0228 .0241 .0254	12 12 13 13	-0.0274 .0281 .0287 .0294 .0300	76767
0.15 .16 .17 .18	+0.0038 .0043 .0048 .0054 .0060	5 5 6 7	-0.0124 .0132 .0140 .0148 .0155	88878	0.40 .41 .42 .43 .44	+0.0267 .0280 .0294 .0308 .0323	13 14 14 15 15	-0,0307 .0313 .0319 .0325 .0331	6 6 6 6
0.20 .21 .22 .23 .24	+0.0067 .0074 .0081 .0088 .0096	7 7 7 8 8	-0.0163 .0171 .0179 .0187 .0194	88878	0.45 .46 .47 .48 .49	+0.0338 .0353 .0368 .0384 .0400	15 16 16 16	-0.0337 .0343 .0348 .0354 .0359	6 5 6 5 6
0.25	+0.0104		-0.0202		0.50	+0.0417		-0.0365	

# TABLE VI THE GUDERMANNIAN

и	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gd u 🧀	ω <b>F</b> <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
0.000	0.000 0000	I 0000	0 00 00.00	206.26	0.050	0.049 9792	9988	2 51 48.95	206.01
.001	.000 0000		0 03 26.26	206.26	.051	.050 9779	9987	2 55 14.95	206.00
.002	.002 0000	1 1	0 06 52.53	206.26	.052	.051 9766	9986	2 58 40.94	205.99
.003	.002 0000		0 10 18.79	206.26	.053	.052 9752	9986	3 02 06.92	205.98
.004	004 0000	1 1	0 13 45.06	205.26	.054	.053 9738	9985	3 05 32.89	205.96
0.005	0.005 0000	1 0000	0 17 11.32	206.26	0.055	0.054 9723	9985	3 08 58.85	205.95
.006	.006 0000		0 20 37.58	206.26	.056	.055 9708	9984	3 12 24.80	205.94
.007	.006 9999	I 0000	0 24 03.84	206.26	.057	.056 9692	9984	3 15 50.73	205.93
.008	.007 9999		0 27 30.10	206.26	.058	.057 9675	9983	3 19 16.66	205.92
.009	.008 9999		0 30 56.36	206.26	.059	.058 9658	9983	3 22 42.57	205.91
0.010	0.009 9998	9999	0 34 22.61	206.25	0.060	0.059 9640	9982	3 26 08.47	205.89
.011	.010 9998	9999	0 37 48.87	206.25	.061	.060 9622	9981	3 29 34.36	205.88
.012	.011 9997		0 41 15.12	206.25	.062	.061 9603	9981	3 33 00.23	205.87
.013	.012 9996		0 44 41.37	206.25	.063	.062 9584	9980	3 36 26.10	205.86
.014	.013 9995		0 48 07.61	206.24	.064	.063 9564	9980	3 39 51.94	205.84
0.015	0.014 9994	9999	o 51 33.86	206.24	0.065	0.064 9543	9979	3 43 17.78	
.016	.015 9993		0 55 00.10		.066	.065 9521	9978	3 46 43.60	205.82
.017	.016 9992		0 58 26.33	206,23	.067	.066 9499	9978	3 50 09.41	205.80
.018	.017 9990		1 01 52.57	206.23	.068	.067 9477	9977	3 53 35.21	
.019	.018 9989	9998	1.05 18.80	206.23	.069	.068 9453	9976	3 57 00.99	205.77
0.020	0.019 998	9998	1 08 45.02	206.22	0.070	0.069 9429	9976	4 00 26.76	205.76
.021	.020 9989		1 12 11.24	206.22	.071	.070 9404	9975	4 03 52.51	205.75
.022	.021 9982		1 15 37.46	206.21	.072	.071 9379	9974	4 07 18.25	205.73
.023	.022 9980		1 19 03.67 1 22 29.88	206.2I 206.2I	.073	.072 9352	9973	4 10 43.98	205.72 205.70
			1 25 56.08	206.20		0.074 9298	9972	4 17 35.38	205.69
0.025	0.024 9974		I 29 22.28	206.20	0.075	.075 9269	9972	4 21 01.06	205.67
.026	.025 9971		I 32 48.47	206.19	-	.076 9240	9971	4 24 26.72	
.027	.026 9967		1 36 14.66	206.19	.077	.077 9210	9970	4 27 52.37	205.64
.029	.027 9963		1 39 40.84	206.18	.079	.078 9180	9969	4 31 18.00	205.62
. 020	0.029 9955	9995	I 43 07.02	206.17	0.080	0.079 9148	9968	4 34 43.61	205.61
.030	.030 9950		1 46 33.19	206.17	.081	.080 9116	9967	4 38 09.21	205.59
	031 994		I 49 59.35	206.16	.082	.081 9083	9966	4 41 34.79	205.57
.032	.032 9940		I 53 25.50	206.15	.083	.082 9049	9966	4 45 00.36	205.56
.033	.033 993		1 56 51.65	206.15	.084	.083 9014	9965	4 48 25.90	205.54
0.035	0.034 9929	9994	2 00 17.79	206.14	0.085	0.084 8978	9964	4 51 51.44	205.52
.036	.035 992		2 03 43.93	206.13	.086	.085 8942	9963	4 55 16.95	
.037	.036 9910		2 07 10.06	206.12	.087	.086 8905	9962	4 58 42.44	205.49
.038	.037 990		2 10 36.18		.088	.087 8866	9961	5 02 07.92	205.47
.039	.038 990		2 14 02.29			.088 8827	9961	5 05 33.38	205.45
0.040	0.039 989	9992	2 17 28.39	206.10	0.090	0.089 8787	9960		
.041	.040 988	9992	2 20 54.49	206.09	.091	.090 8747	9959	5 12 24.25	
.042	.041 987	9991	2 24 20.58		.092	.091 8705	9958	5 15 49.65	
.043	.042 986		2 27 46.65 2 31 12.72	206.07 206.07	.093 .094	.092 8662	9957 9956	5 19 15.03 5 22 40.40	
		1.				ì			
0.045 .046	0.044 984 .045 983		2 34 38.79 2 38 04.84	206.06 206.05	0.095 .096	0.094 8574	9955 9954	5 26 05.75 5 29 31.08	
.047	.045 903		2 41 30.88	206.04	.097	.096 8482	9953	5 32 56.38	
.048	.040 902	9988	2 44 56.91		.098	.097 8435	9952	5 36 21.67	
.049	.048 980		2 48 22.93	206.02	.099	.098 8387	0051	5 39 46.94	
0.050	0.049 979	2 9988	2 51 48.95	206.01	0.100	0.099 8337	9950	5 43 12.19	205.24
u	2 tan-1(eu)-	ω sech μ	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	∞ sech ı

## The Gudermannian.

u	gdu	ωF <sub>0</sub> ′	gđ u	ω <b>F</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′
0.100 .101 .102 .103 .104	0.099 8337 .100 8287 .101 8236 .102 8184 .103 8130	9950 9949 9948 9947 9946	5 43 12.19 5 46 37.42 5 50 02.62 5 53 27.81 5 56 52.97	205.24 205.22 205.20 205.18 205.15	0.150 .151 .152 .153	0.149 4406 .150 4294 .151 4181 .152 4065 .153 3949	9889 9887 9886 9884 9883	8 33 44.35 8 37 08.30 8 40 32.22 8 43 56.11 8 47 19.96	203.97 203.94 203.90 203.87 203.84
0.105 .106 .107 .108 .109	0.104 8076 .105 8021 .106 7964 .107 7907 .108 7848	9945 9944 9943 9942 9941	6 00 18.12 6 03 43.24 6 07 08.34 6 10 33.42 6 13 58.48	205.13 205.11 205.09 205.07 205.05	0.155 .156 .157 .158 .159	0.154 3831 .155 3711 .156 3590 .157 3467 .158 3343	9881 9880 9878 9876 9875	8 50 43.79 8 54 07.59 8 57 31.35 9 00 55.08 9 04 18.78	203.81 203.78 203.75 203.72 203.68
0.110 .111 .112 .113 .114	0.109 7788 .110 7728 .111 7666 .112 7603 .113 7539	9940 9939 9938 9936 9935	6 17 23.51 6 20 48.52 6 24 13.51 6 27 38.48 6 31 03.42	205.02 205.00 204.98 204.95 204.93	0.160 .161 .162 .163 .164	0.159 3217 .160 3089 .161 2960 .162 2830 .163 2697	9873 9872 9870 9869 9867	9 07 42.45 9 11 06.09 9 14 29.69 9 17 53.26 9 21 16.80	203.65 203.62 203.59 203.55 203.52
0.115 .116 .117 .118 .119	0.114 7474 .115 7407 .116 7340 .117 7271 .118 7201	9934 9933 9932 9931 9930	6 34 28.34 6 37 53.24 6 41 18.11 6 44 42.96 6 48 07.78	204.91 204.88 204.86 204.84 204.81	0.165 .166 .167 .168 .169	0.164 2564 .165 2428 .166 2291 .167 2153 .168 2012	9865 9864 9862 9861 9859	9 24 40.31 9 28 03.78 9 31 27.22 9 34 50.62 9 38 13.99	203.49 203.46 203.42 203.39 203.35
0. I20 . I2I . I22 . I23 . I24	0.119 7130 .120 7058 .121 6985 .122 6910 .123 6834	9928 9927 9926 9925 9924	6 51 32.59 6 54 57.36 6 58 22.11 7 01 46.84 7 05 11.54	204.79 204.76 204.74 204.71 204.69	0.170 .171 .172 .173 .174	0.169 1870 .170 1727 .171 1581 .172 1434 .173 1286	9857 9856 9854 9852 9851	9 41 37.33 9 45 00.63 9 48 23.90 9 51 47.14 9 55 10.33	203.32 203.29 203.25 203.22 203.18
0.125 .126 .127 .128 .129	0.124 6757 .125 6679 .126 6600 .127 6519 .128 6437	9922 9921 9920 9919 9917	7 08 36.22 7 12 00.87 7 15 25.49 7 18 50.09 7 22 14.67	204.66 204.61 204.59 204.56	0.175 .176 .177 .178 .179	0.174 1136 .175 0983 .176 0830 .177 0674 .178 0517	9849 9847 9845 9844 9842	9.58 33.50 10 01 56.63 10 05 19.72 10 08 42.78 10 12 05.80	203.15 203.11 203.08 203.04 203.00
0.130 .131 .132 .133 .134	0.129 6354 .130 6269 .131 6183 .132 6096 .133 6008	9916 9915 9913 9912 9911	7 25 39.22 7 29 03.74 7 32 28.23 7 35 52.70 7 39 17.14	204.53 204.51 204.48 204.45 204.43	0.180 .181 .182 .183 .184	0.179 0358 .180 0197 .181 0035 .181 9871 .182 9705	9840 9838 9837 9835 9833	10 15 28.78 10 18 51.73 10 22 14.65 10 25 37.52 10 29 00.36	202.97 202.93 202.90 202.86 202.82
0.135 .136 .137 .138 .139	0.134 5918 .135 5827 .136 5734 .137 5641 .138 5545	9910 9908 9907 9906 9904	7 42 41.55 7 46 05.94 7 49 30.29 7 52 54.62 7 56 18.93	204.40 204.37 204.34 204.32 204.29	0.185 .186 .187 .188 .189	0. 183 9537 . 184 9367 . 185 9196 . 186 9022 . 187 8847	9831 9829 9828 9826 9824	10 32 23.17 10 35 45.93 10 39 08.66 10 42 31.35 10 45 54.01	202.78 202.75 202.71 202.67 202.63
0.140 .141 .142 .143	0.139 5449 .140 5351 .141 5252 .142 5151 .143 5049	9903 9901 9900 9899 9897	7 59 43.20 8 03 07.45 8 06 31.66 8 09 55.85 8 13 20.01		0.190 .191 .192 .193 .194	0.188 8670 .189 8492 .190 8311 .191 8129 .192 7944	9822 9820 9818 9817 9815	16 49 16.62 16 52 39.20 16 56 01.74 16 59 24.24 11 02 46.71	202.60 202.56 202.52 202.48 202.44
0.145 .146 .147 .148 .149	0.144 4946 .145 4841 .146 4734 .147 4626 .148 4517	9896 9894 9893 9891 9890	8 16 44.14 8 20 08.24 8 23 32.31 8 26 56.35 8 30 20.36	204.12 204.09 204.06 204.03 204.00	0.195 .196 .197 .198 .199	0.193 7758 .194 7570 .195 7380 .196 7188 .197 6994	9811 9809 9807 9805	11 06 09.13 11 09 31.51 11 12 53.86 11 16 16.17 11 19 38.43	202.40 202.37 202.33 202.29 202.25
	0.149 4406	9889	8 33 44.35	203.97		0.198 6798	9803		<u></u>
u	z tan-(eu) – 2	∞ sech u	2 tan <sup>1</sup> (e <sup>u</sup> )90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan-1(eu)-90°	ω sech u

u	gdu	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> /	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
0.200	0.108 6708	9803	11 23 00.66	202.21	0.250	0.247 4358	9695	14 10 37.30	199.9
.201	199 6601	9801	11 26 22.85	202.17	.251	.248 4052	9693	14 13 57.26	199.9
.202	.200 6401	9799	11 29 44.99	202.13	.252	•249 3744	9691	14 17 17.16	199.8
.203	.201 6200	9797	11 33 07.10	202.00	.253	.250 3434	9688	14 20 37.02	199.8
.204	.202 5996	9795	11 36 29.17	202.05	.254	.251 3121	9686	14 23 56.83	199.7
0.205	0.203 5790	9794	11 39 51.19	202.01	0.255	0.252 2805	9683	14 27 16.59	199.7
.206	.204 5583	9792	11 43 13.18		.256	.253 2488	9681	14 30 36.31	199.6
.207	.205 5374	9790	11 46 35.12		.257	.254 2167	9679	14 33 55.97	199.6
.208 .209	.206 5162 .207 4949	9788 9786	11 49 57.02 11 53 18.89	201.84	.258	.255 1845 .256 1520	9676 9674	14 37 15.58 14 40 35.14	199.5
0.210	0.208 4733	9783	11 56 40.71	201.80	0.260	0.257 1192	9671	14 43 54.65	199.4
.211	.209 4515	9781	12 00 02.48	201.76	.261	.258 0862	9669	14 47 14.10	199.4
.212	,210 4296	9779	12 03 24.22		.262	.259 0530	9666	14 50 33.51	199.3
213	.211 4074	9777	12 06 45.91		.263	.260 0195	9664		199.3
.214	.212 3851	9775	12 10 07.56	201.63	.264	.260 9857	9661	14 57 12.18	199.2
0.215	0.213 3625	9773	12 13 29.17	201.59	0.265	0.261 9518	9659	15 00 31.43	199.2
.216	.214 3397	9771	12 16 50.74		.266	.262 9175	9656	15 03 50.63	199.1
.217	.215 3167	9769	12 20 12.26		.267	.263 8830		15 07 09.78	199.1
.218	.216 2935	9767	12 23 33.74		.268	.264 8483	9651	15 10 28.88	199.0
.219	.217 2701	9765	12 26 55.18	201.42	.269	.265 8133	9649	15 13 47.93	199.0
0.220	0.218 2465	9763	12 30 16.57			0.266 7781	9646	15 17 06.92	198.9
.221	,219 2227	9761	12 33 37.92		.271	.267 7425	9644	15 20 25.86	198.9
.222	.220 1986	9759	12 36 59.23		.272	.268 7068		15 23 44.75	198.8
.223	.221 1744	9756 9754	12 40 20.49 12 43 41.71		.273 .274	.269 6708	9639 9636	15 27 03.59 15 30 22.37	198.8   198.7
0.225	0.223 1252	9752	12 47 02.88	201.15	0.275	0.271 5980	9633	15 33 41.10	198.7
.226	.224 1003	9750	12 50 24.01	201.11	.276	.272 5612	9631	15 36 59.78	
.227	.225 0752	9748	12 53 45.10		.277	.273 5242	9628	15 40 18.41	198.6
.228	.226 0499	9746	12 57 06.14		.278	274 4868	9626	15 43 36.98	
.229	.227 0243	9743	13 00 27.13	200.97	.279	•275 4493	9623	15 46 55.49	198.5
0.230	0.227 9986	9741	13 03 48.08		0.280	0.276 4114	9620	15 50 13.95	198.4
.231	.228 9726	9739	13 07 08.99		.281	277 3734	9618		198.3
.232	.229 9464	9737	13 10 29.85 13 13 50.66		.282	.278 3350	9615 9612		198.3
.233 .234	.230 9199	9735 9732	13 17 11.42		.284	.279 2964 .280 2575	9612		
	1	,							, T
0.235	.232 8664	9730 9728	13 20 32.15 13 23 52.82		0.285 .286	0.281 2184	9607 9604	16 06 45.45 16 10 03.58	198.1
.230	.233 0393	9726	13 23 52.62		.287	283 1393	9602	16 13 21.66	
.237 .238	.234 8120	9720	13 2/ 13.45			.284 0993	9599	1 2 2 2	
.239	.236 7566	9721	13 33 54.56	1 -	_	.285 0591	9596		197.9
0.240	0.237 7286	9719	13 37 15.05	200.46	0.290	0.286 0186	9594		197.8
.241	.238 7004	9716	13 40 35.49	200.42	.291	.286 9778	9591	16 26 33.43	197.8
.242	.239 6719	9714	13 43 55.88		.292	.287 9368	9588		197.7
·243 ·244	.240 6432 .241 6143	9712 9710	13 47 16.23 13 50 36.53	200.32	. 293 . 294	.288 8955 .289 8539	9586 9583	16 33 08.97 16 36 26.66	197.7 197.6
0.245	0.242 5851	9707	13 53 56.77	200.23	0.295	0.290 8121	9580	16 39 44.30	197.6
.246	243 5557	9705	13 57 16.98		.296	.291 7699	9577	16 43 01.87	197.5
.247	244 5261	9703	14 00 37.13	200.13	.297	.292 7275	9575	16 46 19.39	197.4
248	245 4962	9700	14 03 57.23	200.08	298	293 6849	9572	16 49 36.85	197.4
.249	.246 4661	9698	14 07 17 29	200.03	.299	.294 6419	9569	16 52 54.26	197.3
0.250	0.247 4358	9695	14 10 37.30	199.98	0.300	0.295 5987	9566	16 56 11.60	197.3

u	gdu	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
0.300 .301 .302 .303	0.295 5987 .296 5552 .297 5114 .298 4673 .299 4229	9566 9563 9561 9558 9555	16 56 11.60 16 59 28.89 17 02 46.13 17 06 03.30 17 09 20.42	" 197.32 197.26 197.20 197.15	0.350 .351 .352 .353 .354	0.343 0655 .344 0071 .344 9483 .345 8893 .346 8299	9417 9414 9411 9408 9405	19 39 22.34 19 42 36.55 19 45 50.70 19 49 04.78 19 52 18.80	194.25 194.18 194.11 194.05 193.98
0.305	0.300 3783	9552	17 12 37.48	197.03	0.355	0.347 7702	9401	19 55 32.75	193.92
.306	.301 3334	9549	17 15 54.48	196.97	.356	.348 7101	9398	19 58 46.63	193.85
.307	.302 2882	9547	17 19 11.42	196.91	.357	.349 6498	9395	20 02 00.45	193.78
.308	.303 2427	9544	17 22 28.30	196.85	.358	.350 5891	9392	20 05 14.20	193.72
.309	.304 1069	9541	17 25 45.12	196.79	.359	.351 5281	9388	20 08 27.88	193.65
0.310	0.305 1509	9538	17 29 01.89	196.74	0.360	0.352 4668	9385	20 11 41.50	193.58
.311	.306 1045	9535	17 32 18.60	196.68	.361	.353 4052	9382	20 14 55.05	193.52
.312	.307 0579	9532	17 35 35.24	196.62	.362	.354 3432	9378	20 18 08.54	193.45
.313	.308 0110	9529	17 38 51.83	196.56	.363	.355 2809	9375	20 21 21.95	193.38
.314	.308 9638	9526	17 42 08.36	196.50	.364	.356 2183	9372	20 24 35.30	193.32
0.315	0.309 9163	9524	17 45 24.83	196.44	0.365	0.357 1554	9369	20 27 48.59	193.25
.316	.310 8685	9521	17 48 41.23	196.38	.365	.358 0921	9366	20 31 01.80	193.18
.317	.311 8204	9518	17 51 57.58	196.32	.367	.359 0285	9362	20 34 14.95	193.11
.318	.312 7721	9515	17 55 13.87	196.26	.368	.359 9646	9359	20 37 28.03	193.05
.319	.313 7234	9512	17 58 30.10	196.20	.369	.360 9003	9356	20 40 41.04	192.98
0.320	0.314 6744	9509	18 01 46.26	196.14	0.370	0.361 8358	9352	20 43 53.98	192.91
.321	.315 6252	9500	18 05 02.37	196.08	.371	.362 7708	9349	20 47 06.86	192.84
.322	.316 5757	9503	18 08 18.42	196.01	.372	.363 7056	9346	20 50 19.66	192.77
.323	.317 5258	9500	18 11 34.40	195.95	.373	.364 6460	9343	20 53 32.40	192.70
.324	.318 4757	9497	18 14 50.32	195.89	.374	.365 5741	9339	20 56 45.07	192.63
0.325	0.319 4252	9494	18 18 06.19	195.83	0.375	0.366 5078	9336	20 59 57.67	192.57
.326	.320 3745	9491	18 21 21.99	195.77	.376	.367 4413	9332	21 03 10.20	192.50
.327	.321 3235	9488	18 24 37.72	195.71	.377	.368 3743	9329	21 06 22.66	192.43
.328	.322 2721	9485	18 27 53.40	195.65	.378	.369 3071	9326	21 09 35.05	192.30
.329	.323 2205	9482	18 31 09.02	195.58	.379	.370 2395	9322	21 12 47.38	192.29
0.330 .331 .332 .333	0.324 1686 .325 1163 .326 0638 .327 0110 .327 9578	9479 9476 9473 9470 9467	18 34 24.57 18 37 40.06 18 40 55.49 18 44 10.85 18 47 26.16	195.52 195.46 195.40 195.33 195.27	0.380 .381 .382 .383 .384	0.371 1716 .372 1033 .373 0347 .373 9658 .374 8965	9319 9316 9312 9309 9305	21 15 59.63 21 19 11.82 21 22 23.93 21 25 35.97 21 28 47.95	192.22 192.15 192.08 192.01
0.335 .336 .337 .338 .339	0.328 9044 .329 8506 .330 7965 .331 7422 .332 6875	9464 9461 9458 9455 9452	18 50 41.40 18 53 56.57 18 57 11.69 19 00 26.74 19 03 41.72	195.21 195.15 195.08 195.02 194.95	0.385 .386 .387 .388 .389	0.375 8268 .376 7569 .377 6866 .378 6159 .379 5449	9302 9299 9295 9292 9288	21 31 59.85 21 35 11.68 21 38 23.45 21 41 35,14 21 44 46.76	191.80 191.73 191.66
0.340 .341 .342 .343 .344	0.333 6325 .334 5772 .335 5216 .336 4657 .337 4095	9449 9445 9442 9439 9436	19 06 56.65 19 10 11.50 19 13 26.30 19 16 41.03 19 19 55.70	194.89 194.83 194.76 194.70 194.63	0.390 .391 .392 .393 .394	0.380 4736 .381 4019 .382 3299 .383 2575 .384 1848	9285 9281 9278 9275 9271	21 47 58.31 21 51 00.79 21 54 21.20 21 57 32.53 22 00 43.80	191.44 191.37 191.30
0.345	0.338 3529	9433	19 23 10.30	194.57	0.395	0.385 1117	9268	22 03 54.99	191.00
.346	.339 2961	9430	19 26 24.84	194.51	.396	.386 0383	9264	22 07 06.11	
.347	.340 2389	9427	19 29 39.31	194.44	.397	.386 9645	9261	22 10 17.16	
.348	.341 1814	9424	19 32 53.72	194.38	.398	.387 8904	9257	22 13 28.14	
.349	.342 1236	9420	19 36 08.06	194.31	.399	.388 8159	9254	22 16 39.04	
0.350	0.343 0655	9417	19 39 22.34	194.25	0.400	0.389 7411	9250	22 19 49.88	190.80

The Gudermannian.

u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωFo'
0.400 .401 .402 .403	0.389 7411 .390 6660 .391 5904 .392 5146	9250 9247 9243 9240		190.80 190.72 190.65 190.58	0.450 .451 .452 .453	0.435 5388 .436 4453 .437 3514 .438 2571	9066 9063 9059 9055	24 57 16.34 25 00 23.31 25 03 30.20 25 06 37.01	187.01 186.93 186.85 186.77
.404 0.405 .406 .407 .408 .409	393 4383 0.394 3618 395 2848 396 2075 397 1299 398 0519	9236 9232 9229 9225 9222 9218	22 32 32.48 22 35 42.95 22 38 53.35 22 42 03.67 22 45 13.92 22 48 24.09	190.51 190.43 190.36 190.29 190.21 190.14	•454 •455 •456 •457 •458 •459	0.440 0673 .440 9718 .441 8759 .442 7797 .443 6831	9051 9047 9043 9040 9036 9032	25 09 43.74 25 12 50.39 25 15 56.96 25 19 03.46 25 22 09.87 25 25 16.20	186.61 186.53 186.45 186.37 186.29
0.410 .411 .412 .413	1	9215 9215 9211 9207 9204 9200	22 51 34.19 22 54 44.22 22 57 54.18	190.06 189.99 189.92 189.84 189.77	0.460 .461 .462 .463	0.444 5861 .445 4886 .446 3909 .447 2927 .448 1941	9028 9024 9020 9016 9012	25 28 22,46 25 31 28.63 25 34 34.72 25 37 40.74 25 40 46.67	186.21 186.13 186.05 185.97 185.89
0.415 .416 .417 .418	0.403 5763 .404 4958 .405 4149 .406 3337 .407 2521	9197 9193 9189 9186 9182	23 07 23.59 23 10 33.25 23 13 42.83	189.69 189.62 189.54 189.47 189.39	0.465 .466 .467 .468 .469	0.449 0951 .449 9958 .450 8960 .451 7959 .452 6954	9008 9004 9001 8997 8993	25 43 52.52 25 46 58.29 25 50 03.98 25 53 09.59 25 56 15.12	185.81 185.73 185.65 185.57 185.49
0.420 .421 .422 .423 .424	0.408 1701 .409 0878 .410 0051 .410 9220 .411 8386	9178 9175 9171 9168 9164	23 23 11.13 23 26 20.41 23 29 29.62 23 32 38.75 23 35 47.81	189.32 189.24 189.17 189.09 189.02	0.470 .471 .472 .473 .474	0.453 5944 .454 4931 .455 3914 .456 2893 .457 1868	8989 8985 8981 8977 8973	25 59 20.57 26 02 25.93 26 05 31.22 26 08 36.42 26 11 41.54	185.41 185.33 185.24 185.16 185.08
0.425 .426 .427 .428 .429	0.412 7548 .413 6706 .414 5861 .415 5012 .416 4159	9160 9157 9153 9149 9145	23 38 56.79 23 42 05.69 23 45 14.52 23 48 23.27 23 51 31.95	188.94 188.87 188.79 188.71 188.64	0.475 .476 .477 .478 .479	0.458 0839 .458 9806 .459 8769 .460 7728 .461 6683	8969 8965 8961 8957 8953	26 14 46.58 26 17 51.54 26 20 56.42 26 24 01.21 26 27 05.93	185.00 184.92 184.84 184.75 184.67
0.430 .431 .432 .433 .434	0.417 3303 .418 2443 .419 1579 .420 0711 .420 9840	9142 9138 9134 9131 9127	23 54 40.55 23 57 49.07 24 00 57.52 24 04 05.89 24 07 14.18	188.56 188.49 188.41 188.33 188.26	0.480 .481 .482 .483	0.462 5634 .463 4581 .464 3524 .465 2464 .466 1399	8949 8945 8941 8937 8933	26 30 10.56 26 33 15.10 26 36 19.57 26 39 23.95 26 42 28.25	184.59 184.51 184.42 184.34 184.26
0.435 .436 .437 .438 .439	0.421 8965 .422 8086 .423 7204 .424 6318 .425 5428	9123 9119 9116 9112 9108	24 10 22.40 24 13 30.54 24 16 38.60 24 19 46.59 24 22 54.50	188.18 188.10 188.02 187.95 187.87	0.485 .486 .487 .488 .489	0.467 0330 .467 9257 .468 8180 .469 7099 .470 6014	8929 8925 8921 8917 8913	26 45 32.47 26 48 36.60 26 51 40.65 26 54 44.62 26 57 48.50	184.18 184.09 184.01 183.93 183.84
0.440 .441 .442 .443 .444	0.426 4534 .427 3636 .428 2735 .429 1830 .430 0921	9104 9101 9097 9093 9089	24 26 02.33 24 29 10.08 24 32 17.75 24 35 25.35 24 38 32.87	187.79 187.71 187.64 187.56 187.48	•490 •491 •492 •493 •494	0.47I 4925 .472 3832 .473 2735 .474 I633 .475 0528	8909 8905 8901 8897 8893	27 00 52.31 27 03 56.02 27 06 59.66 27 10 03.21 27 13 06.68	183.68 183.59 183.51
0.445 .446 .447 .448 .449	0.431 0009 .431 9092 .432 8172 .433 7248 .434 6320	9085 9082 9078 9074 9070	24 41 40.31 24 44 47.67 24 47 54.96 24 51 02.16 24 54 09.29		0.495 .496 .497 .498 .499	0.475 9419 .476 8305 .477 7188 .478 6066 .479 4941	8889 8885 8880 8876 8872	27 16 10.06 27 19 13.36 27 22 16.57 27 25 19.70 27 28 22.75	183.26 183.17
0.450 u		9066 •• sech u	24 57 16.34 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°		0.500 u	$\frac{0.480 \ 3811}{2 \tan^{-1}(e^{u}) - \frac{\pi}{2}}$	8868 • sech u	27 31 25.71 2 tan-1(eu)-90°	182.92 ω sech u

# The Gudermannian,

u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u .	gd u	ωF <sub>0</sub> ′	gdu	ωF <sub>Q</sub> ′
0.500	0.480 3811	8868	27 31 25.71	182.92	0.550	0.524 1996	8657	30 02 03.92	178.57
.501	.481 2677	8864	27 34 28.59	182.83	.551	.525 0651	8653	30 05 02.45	178.48
.502	.482 1539	8860	27 37 31.38	182.75	.552	.525 9302	8649	30 08 00.88	178.39
.503	.483 0397	8856	27 40 34.09	182.67	.553	.526 7948	8644	30 10 59.23	178.30
.504	.483 9251	8852	27 43 36.71	182.58	.554	.527 6590	8640	30 13 57.48	178.21
0.505	0.484 8100	8848	27 46 39.25	182.50	0.555	0.528 5228	8636	30 16 55.65	178.12
.506	.485 6946	8844	27 49 41.70	182.41	.556	.529 3861	8631	30 19 53.72	178.03
.507	.486 5787	8839	27 52 41.07	182.33	.557	.530 2490	8627	30 22 51.71	177.94
.508	.487 4625	8835	27 55 46.35	182.24	.558	.531 1115	8622	30 25 49.60	177.85
.509	.488 3458	8831	27 58 48.55	182.15	.559	.531 9735	8618	30 28 47.41	177.76
0.510	0.489 2287	8827	28 01 50.66	182.07	0.560	0.532 8351	8614	30 31 45.12	177.67
.511	.490 1112	8823	28 04 52.69	181.98	.561	.533 6962	8609	30 34 42.75	177.58
.512	.490 9933	8819	28 07 54.63	181.90	.562	.534 5569	8605	30 37 40.28	177.49
.513	.491 8749	8814	28 10 56.48	181.81	.563	.535 4172	8601	30 40 37.73	177.40
.514	.492 7562	8810	28 13 58.25	181.73	.564	.536 2771	8596	30 43 35.08	177.31
0.515	0.493 6370	8806	28 16 59.94	181.64	0.565	0.537 1365	8592	30 46 32.35	177.22
.516	.494 5174	8802	28 20 01.53	181.55	.566	·537 9954	8587	30 49 29.52	177.13
.517	.495 3974	8798	28 23 03.04	181.47	.567	·538 8539	8583	30 52 26.60	177.04
.518	.496 2769	8794	28 26 04.47	181.38	.568	·539 7120	8579	30 55 23.59	176.95
.519	.497 1561	8789	28 29 05.81	181.29	.569	·540 5696	8574	30 58 20.49	176.85
0.520	0.498 0348	8785	28 32 07.06	181.21	0.570	0.541 4268		31 01 17.30	176.76
.521	.498 9131	8781	28 35 08.22	181.12	.571	.542 2836		31 04 14.02	176.67
.522	.499 7910	8777	28 38 09.30	181.04	.572	.543 1399		31 07 10.65	176.58
.523	.500 6685	8773	28 41 10.29	180.95	.573	.543 9958		31 10 07.18	176.49
.524	.501 5456	8768	28 44 11.20	180.86	.574	.544 8512		31 13 03.63	176.40
0.525	0.502 4222	8764	28 47 12.01	180.77	0.575	0.545 7062	8548	31 15 59.98	176.31
.526	.503 2984	8760	28 50 12.75	180.69	.576	.546 5607	8543	31 18 56.24	176.22
.527	.504 1742	8756	28 53 13.39	180.60	.577	.547 4148	8539	31 21 52.41	176.12
.528	.505 0495	8752	28 56 13.95	180.51	.578	.548 2685	8534	31 24 48.49	176.03
.529	.505 9245	8747	28 59 14.41	180.43	.579	.549 1217	8530	31 27 44.47	175.94
0.530 .531 .532 .533 .534	0.506 7990 .507 6731 .508 5468 .509 4200 .510 2928	8743 8739 8735 8730 8726	29 02 14.80 29 05 15.09 29 08 15.30 29 11 15.42 29 14 15.45	180.34 180.25 180.16 180.07 179.99	0.580 .581 .582 .583	0.549 9744 .550 8267 .551 6786 .552 5300 .553 3810	8525 8521 8516 8512 8508	31 30 40.37 31 33 36.17 31 36 31.88 31 39 27.50 31 42 23.03	175.85 175.76 175.66 175.57 175.48
0.535	0.511 1652	8722	29 17 15.39	179.90	0.585	0.554 2315	8503	31 45 18.46	175.39
.536	.512 0372	8717	29 20 15.24	179.81	.586	.555 0816	8499	31 48 13.80	175.30
.537	.512 9087	8713	29 23 15.01	179.72	.587	.555 9313	8494	31 51 09.05	175.20
.538	.513 7798	8709	29 26 14.69	179.63	.588	.556 7804	8490	31 54 04.21	175.11
.539	.514 6505	8705	29 29 14.28	179.55	.589	.557 6292	8485	31 56 59.27	175.02
0.540	0.515 5207	8700	29 32 13.78		0.590	0.558 4775	8481	31 59 54.25	174.93
.541	.516 3905	8696	29 35 13.20		•591	.559 3253	8476	32 02 49.13	174.83
.542	.517 2599	8692	29 38 12.52		•592	.560 1727	8472	32 05 43.91	174.74
.543	.518 1289	8687	29 41 11.76		•593	.561 0196	8467	32 08 38.61	174.65
.544	.518 9974	8683	29 44 10.91		•594	.561 8661	8463	32 11 33.21	174.55
0.545 .546 .547 .548 .549	0.519 8655 .520 7332 .521 6004 .522 4673 .523 3336	8679 8675 8670 8666 8662	29 47 09.96 29 50 08.93 29 53 07.81 29 56 06.61 29 59 05.31	178.84 178.75	0.595 .596 .597 .598 .599	.563 5577 .564 4029 .565 2476	8458 8454 8449 8445	32 14 27.71 32 17 22.13 32 20 16.45	174.46 174.37 174.27 174.18 174.09
0.550	believe contaction	8657	30 02 03.92			0.566 9356	8436	32 28 58.85	173.99
u	2 tan <sup>-1</sup> (e <sup>u</sup> )- $\frac{\pi}{2}$	∞ sech μ	2 tan <sup>—1</sup> (e <sup>u</sup> )—90°	ω sech u	u	$2\tan^{-1}(e^{u})-\frac{\pi}{2}$	ω sech u	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u

u	gd u	ωF <sub>0</sub> ′	gđu	ω <b>F</b> <sub>0</sub> ′	u	gd u	ω F <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
0.600 .601 .602 .603 .604	0.566 9356 .567 7789 .568 6218 .569 4642 .570 3061	8431 8426		173.71	.652 .653	0.608 5398 .609 3600 .610 1798 .610 9991 .611 8179	8200 8195 8191		169.2 169.1 169.0 168.9 168.8
0.605 .606 .607 .608 .609	0.571 1476 .571 9887 .572 8293 .573 6694 .574 5091	8413 8408 8404 8399 8395	32 43 27.66 32 46 21.14 32 49 14.52 32 52 07.82 32 55 01.01	173.43 173.34 173.24	0.655 .656 .657 .658 .659	0.612 6363 .613 4542 .614 2716 .615 0886 .615 9051	8177 8172 8167	35 06 05.31 35 08 54.01 35 11 42.62 35 14 31.13 35 17 19.54	168.7 168.6 168.5 168.4 168.3
0.610 .611 .612 .613 .614	0.575 3484 .576 1871 .577 0255 .577 8633 .578 7007	8390 8385 8381 8376 8372	32 57 54 12 33 00 47 13 33 03 40 04 33 06 32 86 33 09 25 59	172.96 172.87	0.660 .661 .662 .663 .664	0.616 7211 .617 5366 .618 3517 .619 1663 .619 9804	8153 8148 8144	35 22 56.08 35 25 44.20	168.2 168.1 168.0 167.9 167.8
0.615 .616 .617 .618 .619	0.579 5377 .580 3741 .581 2102 .582 0457 .582 8809	8367 8363 8358 8353 8349	33 12 18.22 33 15 10.76 33 18 03.20 33 20 55.55 33 23 47.81	172.49 172.40 172.30		0.620 7941 .621 6073 .622 4200 .623 2322 .624 0440	8129 8125 8120	35 34 07.97 35 36 55.70 35 39 43.34 35 42 30.87 35 45 18.31	167.75 167.65 167.55 167.49
0.620 .621 .622 .623 .624	0.583 7155 .584 5497 .585 3834 .586 2167 .587 0495		33 26 39.97 33 29 32.03 33 32 24.00 33 35 15.87 33 38 07.65	172.02	0.670 .671 .672 .673 .674	0.624 8553 .625 6661 .626 4764 .627 2863 .628 0956	8100 8101 8096 8110	35 48 05.65 35 50 52.89 35 53 40.03 35 56 27.08 35 59 14.03	167.25 167.16 167.06 167.06
0.625 .626 .627 .628 .629	0.587 8819 .588 7137 .589 5452 .590 3761 .591 2066	8321 8317 8312 8307 8303	33 40 59.34 33 43 50.93 33 46 42.42 33 49 33.82 33 52 25.12	171.54 171.45	0.675 .676 .677 .678	0.628 9046 .629 7130 .630 5209 .631 3284 .632 1354	8087 8082 8077 8072 8068	36 02 00.88 36 04 47.63 36 07 34.28 36 10 20.84 36 13 07.29	166.83 166.69 166.5 166.4
0.630 .631 .632 .633 .634	0.592 0367 .592 8662 .593 6954 .594 5240 .595 3522	8298 8293 8289 8284 8280	33 55 16.33 33 58 07.44 34 00 58.46 34 03 49.38 34 06 40.20	171.06 170.97	0.680 .681 .682 .683 .684	0.632 9420 .633 7480 .634 5536 .635 3587 .636 1633	8063 8058 8053 8049 8044	36 15 53.65 36 18 39.91 36 21 26.07 36 24 12.14 36 26 58.10	166.3 166.2 166.1 166.0 165.9
0.635 .636 .637 .638 .639	0.596 1799 .597 0072 .597 8339 .598 6603 .599 4861	8275 8270 8266 8261 8256	34 09 30.93 34 12 21.56 34 15 12.10 34 18 02.54 34 20 52.89	170.68 170.59 170.49 170.39 170.30	0.685 .686 .687 .688 .689	0.636 9675 .637 7711 .638 5743 .639 3770 .640 1792	8039 8034 8029 8025 8020	36 29 43.97 36 32 29.74 36 35 15.41 36 38 00.98 36 40 46.45	165.82 165.72 165.62 165.52 165.42
0.640 .641 .642 .643 .644	0.600 3115 .601 1364 .601 9609 .602 7849 .603 6084	8252 8247 8242 8238 8233	34 23 43.14 34 26 33.29 34 29 23.35 34 32 13.31 34 35 03.17	170.20 170.11 170.01 169.91 169.82	0.690 .691 .692 .693 .694	0.640 9810 .641 7823 .642 5830 .643 3834 .644 1832	8015 8010 8006 8001 7996	36 43 31.82 36 46 17.09 36 49 02.27 36 51 47.34 36 54 32.32	165.32 165.22 165.13 165.03 164.93
0.645 .646 .647 .648 .649	6.604 4315 .605 2541 .606 0762 .606 8979 .607 7190	8228 8224 8219 8214 8210	34 37 52.94 34 40 42.61 34 43 32.19 34 46 21.67 34 49 11.05	169.72 169.62 169.53 169.43 169.33	0.695 .696 .697 .698 .699	0.644 9825 .645 7814 .646 5798 .647 3777 .648 1751	7991 7986 7981 7977 7972	36 57 17.20 37 00 01.98 37 02 46.66 37 05 31.24 37 08 15.72	164.83 164.73 164.63 164.53 164.43
0.650	0.608 5398	8205	34 52 00.34	169.24	0.700	0.648 9721	7967	37 11 00.10	164.33

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0.700	0.648 9721	7967 7962	37 11 00.10 37 13 44.38	164.33 164.23	0.750 .751	0.688 2014	7724 7719	39 25 51.72 39 28 30.98	159.32 159.22
.702	.650 5645	7957	37 16 28.57	164.13	.752	.689 7451	7714	39 31 10.15	159.11
.703	.651 3600 .652 1550	7953 7948	37 19 12.65 37 21 56.63	164.03 163.93	•753 •754	.690 5163 .691 2870	7709 7704	39 33 49.21 39 36 28.18	159.01 158.91
0.705	0.652 9496	7943	37 24 40.52	163.84	0.755	0.692 0572	7699	39 39 07.04	158.81
.706	.653 7436 .654 5372	7938 7933	37 27 24.31 37 30 07.99	163.74 163.64	.756 .757	.692 8269 .693 5961	7694 7690	39 41 45.80 39 44 24.46	158.71 158.61
.708	.655 3303	7928	37 32 51.58	163.54	.758	.694 3648	7685	39 47 03.01	158.51
.709	.656 1229	7924	37 35 35.06	163.44	•759	.695 1330	7680	39 49 41.47	158.40
0.710	0.656 9150 .657 7067	7919 7914	37 38 18.45 37 41 01.74	163.34 163.24	0.760 .761	0.695 9007 .696 6679	7675 7670	39 52 19.82 39 54 58.07	158.30
.712	.658 4978	7909	37 43 44.92	163.14	.762	697 4347	7665	39 57 36.23	158.10
.713	.659 2885 .660 0787	7 <b>90</b> 4 7899	37 46 28.01 37 49 11.00	163.04 162.94	.763 .764	.698 2009 .698 9667	7660 7655	40 00 14.28 40 02 52.22	158.00
0.715	o.660 8684	<i>7</i> 895	37 51 53.89	162.84	o. <i>7</i> 65	0.699 7319	7650	40 05 30.07	157.80
.716 .717	.661 6576 .662 4463	7890 7885	37 54 36.68 37 57 19.36	162.74 162.64	766 767	.700 4967 .701 2610	7645 764 <b>0</b>	40 08 07.81 40 10 45.46	157.69 157.59
.718	.663 2346	7880	38 00 01.95	162.54	.768	.702 0248	<i>7</i> 635	40 13 23.00	157.49
.719	.664 0223	7875	38 02 44.44	162.44	.769	.702 7880	7630	40 16 00.44	157.39
0.720	0.664 8096 .665 5964	7870 7865	38 05 26.83 38 08 09.11	162.34 162.24	0.770	0.703 5508 .704 3131	7625 7620	40 18 37.78 40 21 15.01	157.29 157.19
.722	.666 3827	7861	38 10 51.30	162.14	.772	.705 0750	7616	40 23 52.15	157.08
.723 .724	.667 1685 .667 9539	7856 7851	38 13 33.39 38 16 15.37	162.04 161.94	•773 •774	.705 8363 .706 5971	7611 7606	40 26 29.18 40 29 06.11	156.98 156.88
0.725	0.668 7387	7846	38 18 57.26	161.84	0.775	0.707 3574	<i>7</i> 601	40 31 42.94	156. <i>7</i> 8
.726 727	.669 5231 .670 3069	7841 7836	38 21 39.05 38 24 20.73	161.74 161.64	-776 -777	.708 1173 .708 8766	7596	40 34 19.67 40 36 56.29	156.68 156.57
.728	.671 0903	7831	38 27 02.32	161.54	.778	.709 6354	7586	40 39 32.82	156.47
.729	.671 8732	7827	38 29 43.80	161.43	779	.710 3938	7581	40 42 09.24	156.37
0.730	0.672 6556 .673 4376	7822 7817	38 32 25.19 38 35 06.47	161.33 161.23	0.780 .781	0.711 1516 .711 9090	7576 7571	40 44 45.56 40 47 21.77	156.27 156.17
.732	.674 2190	7812	38 37 47.65	161.13	.782	.712 6659	7566	40 49 57.89	156.06
733	.675 0000 .675 7804	7807 7802	38 40 28.74 38 43 09.72	161.03 160.93	.783 .784	.713 4223 .714 1781	7561 - 7556	40 52 33.90 40 55 09.81	155.96 155.86
0.735	0.676 5604	7797	38 45 50.60	160.83	o. <i>7</i> 85	0.714 9335	7551	.40 57 45.62	155.76
.736 •737	.677 3399 .678 1189	7792 7788	38 48 31.38 38 51 12.06	160.73 160.63	.785 .787	.715 6884 .716 4428	7546		155.66 155.55
.738	.678 8974	7783	38 53 52.64	160.53	.788	.717 1967	7537	41 05 32.44	155.45
•739	.679 6754	7778	38 56 33.12	160.43	.789	.717 9501	7532	41 08 07.84	155.35
0.740	0.680 4530 .681 2300	7773 7768	38 59 13.50 39 01 53.77	160.33 160.23	0.790 .791	0.718 7030 .719 4554	7527 7522	41 10 43.14 41 13 18.33	155.25 155.15
.742	.682 0065	7763	39 04 33.95	160.13	.792	.720 2073	7517	11 15 53.43	155.04
·743 ·744	.682 7826 .683 5582	7758 7753	39 07 14.02 39 09 54.00	160.02 159.92	•793 •794	.720 9588 .721 7097	7512 7507	41 18 28.42	154.94 154.84
0.745	0.684 3333	7748	39 12 33.87	159.82	0. <i>7</i> 95	0.722 4601		41 23 38.10	154.74
.746	.685 1079	7744	39 15 13.64	159.72	.796	.723 2101	7497	41 26 12.78	154.63
.747	.685 8820 .686 6556	7739 7734	39 17 53.31 39 20 32.88	159.62 159.52	.797 .798	.723 9595 .724 7084	7487	41 28 47.36 41 31 21.84	154.53 154.43
•749	.687 4287	7729	39 23 12.35	159.42	799	.725 4569	7482	41 33 56.22	154.33
0.750	0.688 2014	7724	39 25 51.72	159.32	0.800	0.726 2048	7477	41 36 30.50	154.22
u	2 tan-1(eu)-#	ω sech u	2 tan-1(e <sup>1</sup> )-90°	∞ sech u	u	$2 \tan^{-1}(e^{ii}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	ω sech u

u.	gđ u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′	u	gđu	ωF <sub>0</sub> ′	gđu	ωF <sub>0</sub> ′
0.800 .801 .802 .803 .804	0.726 2048 .726 9523 .727 6992 .728 4457 .729 1916	7477 7472 7467 7462 7452	41 36 30.50 41 39 04.67 41 41 38.74 41 44 12.71 41 46 46.57	" 154.22 154.12 154.02 153.92 153.81	0.850 .851 .852 .853 .854	0.762 9677 .763 6902 .764 4122 .765 1338 .765 8548	7228 7223 7218 7213 7208	43 42 53.38 43 45 22.41 43 47 51.34 43 50 20.17 43 52 48.89	149.09 148.98 148.88 148.78 148.67
o.805 .806 .807 .808 .809	0.729 9371 .730 6821 .731 4266 .732 1705 .732 9140	7452 7447 7442 7437 7432	41 49 20.34 41 51 54.00 41 54 27.56 41 57 01.01 41 59 34.36	153.71 153.61 153.51 153.40 153.30	0.855 .856 .857 .858 .859	0.766 5754 .767 2954 .768 0149 .768 7340 .769 4525	7203 7198 7193 7188 7183	44 00 14.45 44 02 42.76	148.57 148.47 148.36 148.26
0.810	0.733 6570	7427	42 02 07.62	153.20	0.860	0.770 1706	7178	44 07 39.08	148.06
.811	.734 3995	7422	42 04 40.76	153.10	.861	.770 8881	7173	44 10 07.08	147.95
.812	.735 1414	7417	42 07 13.81	152.99	.862	.771 6051	7168	44 12 34.98	147.85
.813	.735 8829	7412	42 09 46.75	152.89	.863	.772 3217	7163	44 15 02.78	147.75
.814	.736 6239	7407	42 12 19.59	152.79	.864	.773 0377	7158	44 17 30.48	147.64
0.815 .816 .817 .818 .819	0.737 3644 .738 1044 .738 8439 .739 5829 .740 3214	7402 7397 7392 7387 7383	42 14 52.33 42 17 24.96 42 19 57.50 42 22 29.93 42 25 02.25	152.69 152.58 152.48 152.38 152.28	0.865 .866 .867 .868 .869	0.773 7533 .774 4683 .775 1829 .775 8969 .776 6104	7153 7148 7143 7138 7133	44 22 25.56 44 24 52.94	147.54 147.44 147.33 147.23 147.13
0.820	0.74I 0594	7378	42 27 34.48	152.17	0.870	0.777 3235	7128	44 32 14.48	147.02
.821	.74I 7969	7373	42 30 06.60	152.07	.871	.778 0360	7123	44 34 41.45	146.92
.822	.742 5339	7368	42 32 38.62	151.97	.872	.778 7481	7118	44 37 08.32	146.82
.823	.743 2704	7363	42 35 10.53	151.86	.873	.779 4596	7113	44 39 35.09	146.71
.824	.744 0064	7358	42 37 42.34	151.76	.874	.780 1707	7108	44 42 01.75	146.61
0.825	0.744 7420	7353	42 40 14.05	151.66	0.875	0.780 8812	7103	44 44 28.31	146.51
.826	.745 4770	7348	42 42 45.66	151.56	.876	.781 5912	7098	44 46 54.77	146.41
.827	.746 2115	7343	42 45 17.17	151.45	.877	.782 3008	7093	44 49 21.12	146.30
.828	.746 9455	7338	42 47 48.57	151.35	.878	.783 0098	7088	44 51 47.37	146.20
.829	.747 6790	7333	42 50 19.87	151.25	.879	.783 7184	7083	44 54 13.52	146.10
0.830	0.748 4120	7328	42 52 51.06	151.14	0.880	0.784 4264	7078	44 56 39.56	145.99
.831	.749 1446	7323	42 55 22.16	151.04	.881	.785 1340	7073	44 59 05.50	145.89
.832	.749 8766	7318	42 57 53.15	150.94	.882	.785 8410	7068	45 01 31.34	145.79
.833	.750 6081	7313	43 00 24.04	150.84	.883	.786 5476	7063	45 03 57.08	145.68
.834	.751 3391	7308	43 02 54.82	150.73	.884	.787 2536	7058	45 06 22.71	145.58
0.835	0.752 0697	7303	43 05 25.50	150.63	0.885	0.787 9591	7053	45 08 48.24	145.48
.836	.752 7997	7298	43 07 56.08	150.53	.886	.788 6642	7048	45 11 13.66	145.37
.837	.753 5292	7293	43 10 26.56	150.42	.887	.789 3687	7043	45 13 38.99	145.27
.838	.754 2582	7288	43 12 56.93	150.32	.888	.790 0728	7038	45 16 04.21	145.17
.839	.754 9868	7283	43 15 27.20	150.22	.889	.790 7763	7033	45 18 29.32	145.06
0.840	0.755 7148	7278	43 17 57.37	150.12	0.890	0.791 4794	7028	45 20 54.34	144.96
.841	.756 4423	7273	43 20 27.43	150.01	.891	.792 1819	7023	45 23 19.25	144.86
.842	.757 1694	7268	43 22 57.39	149.91	.892	.792 8839	7018	45 25 44.05	144.76
.843	.757 8959	7263	43 25 27.25	149.81	.893	.793 5855	7013	45 28 08.76	144.65
.844	.758 6219	7258	43 27 57.01	149.70	.894	.794 2865	7008	45 30 33.36	144.55
0.845	0.759 3475	7253	43 30 26.66	149.60	0.895	0.794 9871	7003	45 32 57.85	144.45
.846	.760 0725	7248	43 32 56.21	149.50	.896	.795 6871	6998	45 35 22.25	144.34
.847	.760 7970	7243	43 35 25.65	149.39	.897	.796 3867	6993	45 37 46.54	144.24
.848	.761 5211	7238	43 37 55.00	149.29	.898	.797 0857	6988	45 40 10.73	144.14
.849	.762 2446	7233	43 40 24.24	149.19	.899	.797 7843	6983	45 42 34.81	144.03
0.850	0.762 9677	7228	43 42 53 38	149.09	0.900	0.798 4823	6978	45 44 58.80	143.93

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0.900	0.798 4823	6978	45 44 58.80	,, 14 <b>3</b> .93	0.950	0.832 7479	6728	47 42 46.58	138.78
.901	.799 1798	6973	45 47 22.67	143.83	.951	.833 4205	6723	47 45 05.31	138.68
.902	.799 8769	6968	45 49 46.45	143.72	.952	.834 0926	6719	47 47 23.94	138.58
.903 904	.800 5734 .801 2695	6963 6958	45 52 10.12 45 54 33.69	143.62 143.52	∙953 ∙954	.834 7642 .835 4353	6714 6709	47 49 42.47 47 52 00.89	138.48 138.37
0.905	0.801 9650	6953	45 56 57.16	143.42	0.955	0.836 1059	6704	47 54 19.22	138.27
.906	.802 6601	6948	45 59 20.52	143.31	.956	.836 7760	6699	47 56 37.44	138.17
.907	.803 3546	6943	46 oi 43.78	143.21	•957	.837 4456	6694	47 58 55.55	138.07
.908	.804 0487	6938	46 04 06.94	143.11	.958	.838 1147	6689	48 01 13.57	137.96
.909	.804 7422	6933	46 <b>o</b> 6 <b>30.0</b> 0	143.00	•959	.838 7833	6684	48 03 31.48	137.86
0.910	0.805 4353 .806 1278	6928	46 08 52.95	142.90 142.80	0.960 .961	0.839 4514	6679	48 05 49.29	137.76
.911	.806 8198	6923 6918	46 11 15.79 46 13 38.54	142.69	.962	.840 1191 .840 7862	6674 6660	48 08 07.00 48 10 24.60	137.66
.913	.807 5114	6913	46 16 01.18	142.59	963	.841 4528	6664	48 12 42.10	137.45
.914	.808 2024	6908	46 18 23.72	142.49	964	.842 1190	6659		137.35
0.915	o.808 8930	6903	46 20 46.16	142.38	0.965	0.842 7846	6654	48 17 16.80	137.25
.916	.809 5830	6898	46 23 08.49	142.28	.966	.843 4497		48 19 33.99	137.14
.917	.810 2726 .810 9616	6893 6888	46 25 30.72 46 27 52.85	142.18	.967 .968	.844 1144 .844 <i>77</i> 85	6644 6639		137.04 136.94
.919	.811 6502	6883	46 30 14.87	141.97	.969	.845 4422	6634		136.84
0.920	0.812 3383	6878	46 32 36.79	141.87	0.970	0.846 1053	6629	48 28 41.75	136.73
.921	.813 0258	6873	46 34 58.61	141.77	.971	.846 7680	6624	48 30 58 43	136.63
.922	.813 7129	6868	46 37 20 33	141.66	.972	.847 4301	6619	48 33 15.01	136.53
.923	814 3994	6863	46 39 41.94	141.56	•973	.848 0918	6614	48 35 31.49	136.43
.924	.815 0855	6858	46 42 03.45	141.46	•974	.848 7530	6609	48 37 47.87	136.32
0.925	0.815 7710	6853	46 44 24.85	141.35	0.975	0.849 4136	6604		136.22
.926 .927	.816 4561 .817 1406	6848 6843	46 46 46.16	141.25 141.15	.976 .977	.850 0738 .850 7335	6599 6594		136.12 136.02
928	.817 8247	6838	46 51 28.45	141.05	.978	851 3927	6589	48 46 52.34	135.92
.929	.818 5083	6833	46 53 49.45	140.94	979	.852 0514	6584		135.81
0.930	0.819 1913	6828	46 56 10.34	140.84	0.980	0.852 7096	6579	48 51 23.97	135.71
.931	.819 8739	6823	46 58 31.13	140.74	.981	.853 3673	6574	48 53 39.63	135.61
.932	.820 5560 .821 2375	6818 6813	47 00 51.81 47 03 12.40	140.63	.982 .983	.854 0245 .854 6812	6570 6565	48 55 55 19 48 58 10 64	135.51
·933 ·934	.821 9186	6808	47 05 32.88	140.43	.984	.855 3374	6560	49 00 26 00	135.30
0.935	0.822 5992	6803	47 07 53.25	140.33	0.985	0.855 9931	6555	49 02 41.25	135.20
.936	.823 2792	6798	47 10 13.53	140.22	.986	.856 6483	6550	49 04 56.40	135.10
.937	.823 9588	6793	47 12 33.70	140.12	.987	.857 3030	6545	49 07 11.44	135.00
.938	824 6379	6788	47 14 53.77	140.02	.988	857 9573	6540		134.89
939	.825 3164	6783	1	139.91	.989	.858 6110	6535	49 11 41 23	134.79
0.94 <b>0</b> .941	0.825 9945 .826 6721	6778	47 19 33.60 47 21 53.36	139.81	0.990 .991	0.859 2642 .859 9170	6530 6525		134.69
.942	.827 3492	6768	47 24 13.02	139.61	.992	.860 5692	6520		134.49
.943	.828 0257	6763	47 26 32.57	139.50	•993	.861 2210	6515	49 20 39.58	134.38
•944	.828 7018	6758	47 28 52.02	139.40	•994	.861 8723	6510	49 22 53.92	134.28
0.945	0.829 3774	6753	47 31 11.37	139.30	0.995	0.862 5230	6505	49 25 08.15	134.18
.946	820 7271	6748	47 33 30.62	139.20	.996	.863 1733 .863 8231	6500		135.08
•947 •948	.830 7271	6743 6738	47 35 49.76 47 38 08.80	139.09	.997 .998	.864 4724	6495 6490	49 29 36.30 49 31 50.23	133.98
•949	.832 0748	6733	47 40 27.74	138.89	.999	.865 1112	6485	49 34 04.05	133.77
0.950	0.832 7479	6728	47 42 46.58	138.78	1.000	0.865 7695	6481	49 36 17.77	133.67
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1.000	0.865 7695	6481	49 36 17.77	133.67	1.050	0.897 5576	6235	5I 25 34.55	128.6
.001	.866 4173	6476		133.57	.051	.898 1809	6230	51 25 34.55 51 27 43.11	128.5
.002	.867 0646	6471		133.47	.052	.898 8037	6225		128.4
.003	.867 7114	6466	49 42 58.33	133.37	.053	.899 4260	6221		128.3
.004	.868 3578	6461	49 45 11.64	133.26	.054	1900 0478	6216	51 34 08.18	128.2
1.005	0.869 0036	6456	49 47 24.86	133.16		0.900 6691	6211		128.1
.006	.879 6489	6451	49 49 37 97	133.06		.90I 2900	6206	100.	128.0
.007 .008	.870 2938 .870 9381	6446 6441		132.96		901 9103	6201 6196		127.8
.009	.871 5820	6436	49 56 16.69	132.76	.058	.802 5302	6191	51 44 47.97	127.7
1.010	0.872 2254	6431	49 58 29.40	132.65	1.060	0.903 7685	6187	51 46 55.63	127.6
011	.872 8682	6426			.061	904 3869	6182		127.5
.012	.873 5106	6421			.052	.905 0048	6177		127.4
.013	874 1525	6416				.905 6222	6172		127.3
.014	.874 7939	6412	50 07 19.20	132.25	.064	906 2392	6167	51 55 25.25	127.2
1.015	0.875 4348	6407	50 09 31.40	132.15	1.065	0.906 8557	6162		127.1
.016	.876 0752 .876 7152	6402 6397	50 11 43.49 50 13 55.49	132.04	.066 .067	907 4716	6157 6153		
.018	.877 3546	6392	50 16 07.38	131.84	.058	.908 7022	6148		126.8
.019	.877 9936	6387	50 18 19.17	131.74	.069	.909 3167	6143		126.7
1.020	0.878 6320	6382	50 20 30.86	131.64	1.070	0.909 9307	6138	52 08 06.68	126.6
.021	.879 2700	6377	50 22 42.45		.071	910 5443	6133		126.5
.022	.879 9074	6372	50 24 53.94	131.44	.072	.911 1574	6128		126.4
.023	.880 5444 .881 1809	6367 6362	50 27 05.32 50 29 16.61		.073	.911 7699	6123		126.3
.044	1		50 29 10.01	131.23	.074	.912 3821	6118	52 16 32.31	126.2
1.025	0.881 8169	6357	50 31 27.79	131.13	1.075	0.912 9937	6114		
.026	.882 4524 .883 0874	6353 6348	50 33 38.87 50 35 49.85	131.03 130.93	.076	.913 6048	6104	52 20 44.52 52 22 50.48	126.0
.028	.883 7219	6343	50 38 00.73	130.83	.078	.914 2155	6000		125.8
.029	.884 3560	6338	50 40 11.51	130.73	.079	.915 4353	6094		125.7
1.030	0.884 9895	6333	50 42 22.19	130.63	1.080	0.916 0445	6090	52 29 07.75	125.6
.031	.885 6226	6328	50 44 32.76		.081	.916 6532	6085		125.5
.032	.886 2551 .886 8872	6323	50 46 43.24	130.42	.082	.917 2615	6080		125.4
.033	.887 5188	6318	50 48 53.61		.083	.917 8692 .918 4765	6075 6070		125.3 125.2
1.035	0.888 1499	6308	EO E2 T4 06	130.12	1.085	0.919 0833	6065	E2 20 24 E4	T2E 1
.036	.888 7805	6304	50 53 14.06 50 55 24.13		.086	.919 6896	6061		125.1
.037	.889 4106	6299	50 57 34.10		.087	920 2954	6056		124.9
.038	.890 0402	6294	50 59 43.97	129.82	.088	.920 9008	6051	52 45 49.42	124.8
.039	.890 6693	6289	51 01 53.74	129.72	.089	.921 5056	6046	52 47 54.18	124.7
1.040		6284			1.090		6041		124.6
.041	.891 9262	6279	51 06 12.98		.091	.922 7139		52 52 03.41	124.5
.042	.892 5538 .893 1810	6269	51 08 22.44 51 10 31.81	129.42 129.32	.092	.923 3173		52 54 07.87 52 56 12.24	124.4
.044	.893 8077		51 12 41.07		.093	.923 9203		52 58 16.50	
1.045	0.894 4339	6260	5I I4 50.24	129.11	1.095	0.925 1247	6017	53 00 20.67	124.1
.046	.895 0596	6255	51 16 59.30	129.01	.096	.925 7262	6013	53 02 24.74	124.0
.047	.895 6848	6250	51 19 08.26	128.91	.097	.925 3272	6008	53 04 28.70	123.9
.048	.896 3096 .896 9338	6245 6240	51 21 17.12 51 23 25.88	128.81 128.71	.098	.926 9278	6003 5008	53 06 32.57 53 08 36.34	123.8
1.050	0.897 5576	6235	51 25 34.55	128.61	1.100	0.928 1274	5993	53 10 40.01	
u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech μ	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech μ	2tan-1(eu)-90°	ω sech

u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ωF₀^	и	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′
2,594			0 / //					0 1 11	
1.100	0.928 1274	-5993	53 10 40.01	123.62	1.150	0.957 4980	5756	54 51 38.15	118.72
IOI	.928 7265	5989	53 12 43 59	123.52	.151	.958 0734	5751	54 53 36.82	118.62
.102	.929 3251	5984	53 14 47.06	123.42	.152	.958 6482	5746	54 55 35 39	118.53
.103	.929 9232	5979	53 16 50.43	123.32	.153	.559 2226	5742	54 57 33.87	118.43
.104	.930 5209	5974	53 18 53.71	123.23	•154	.959 7965	5737	54 59 32.25	118.33
1.105	0.931 1181	5969	53 20 56.89	123.13	1.155	0.960 3700	5732	55 01 30.53	118.23
•100	.931 7148	5965	53 22 59.96	123.03	156	.960 9430	5727	55 03 28.72	118.14
.107	.932 3110	5960	53 25 02.94	122.93	•157	.961 5155	5723	55 05 26.81	118.04
.108	.932 9067 .933 5020	5955 5950	53 27 05.82 53 29 08.60	122.83	.158	.962 0875 .962 6591	5718 5713	55 07 24.80 55 09 22.69	117.94
!			Ballio.	₩WE TO					
1.110	0.934 0968	5945	53 31 11.29	122.63	1,160	0.963 2302	5709	55 11 20.49	117.75
.111	.934 6911	5941	53 33 13.87	122.54	.161	.963 8008	5704	55 13 18.19	117.65
.112	.935 2849	5936	53 35 16.36	122.44 122.34	.162 .163	.964 3710 .964 9407	5699 5695	55 15 15.80 55 17 13.31	117.56
.113	.936 4711	5931 5926	53 39 21.03	122.24	.164	965 5099	5690	55 19 10.72	117.46 117.36
1.115	0.937 0635	5922	53 41 23.22	122.14	1.165	0.966 0787	5685	55 21 08.04	117.27
.116	937 6554	5917	53 43 25.32	122.04	.166	966 6470	5681	55 23 05.26	117.17
.117	938 2469	5912	53 45 27.31	122.94	.167	.967 2148	5676	55 25 02.38	117.07
.118	.938 8378	5907	53 47 29.21	121.85	. 168	.967 7822	5671	55 26 59.41	116.98
.119	.939 4283	5902	53 49 31.00	121.75	. 169	.968 3491	5667	55 28 56.34	116.88
1,120	0.940 0183	5898	53 51 32.70	121.65	1.170	0.968 9155	5662	55 30 53.17	116.79
.121	.940 6079	5893	53 53 34.30	121.55	.171	.969 4815	5657	55 32 49.91	
.122	.941 1969	5888	53 55 35.80	121.45	.172	.970 0470	5653	55 34 46.55	116.59
.123	.941 7855	5883	53 57 37.21	121.35	.173	.970 6120	5648	55 36 43.10	116.50
.124	•942 3736	5879	53 59 38.51	121.26	.174	.971 1 <b>7</b> 66	5643	55 38 39.54	116.40
1.125	0.942 9613	5874	54 01 39.72	121.16	1.175	0.971 7407	5639	55 40 35.90	116.31
.126	.943 5484	5869	54 03 40.83	121.06	1.76	.972 3043	5634	55 42 32.16	116.21
.127	.944 1351	5864	54 05 41.84	120.96	.177	.972 8675		55 44 28.32	116.11
.128	•944 7213	5860	54 07 42.76	120.86	.178	.973 4301	5625	55 46 24.38	116.02
.129	.945 3070	5855	54 09 43.57	120.77	•1 <i>7</i> 9	.973 9924	5620	55 48 20.35	115.92
1.130	0.945 8923	5850	54 11 44.29	120.67	1.180	0.974 5542			115.83
.131	.946 4771	5845	54 13 44.91	120.57	.181	.975 1155		55 52 12.00	115.73
.132	.947 0614	5841	54 15 45 43	120.47	.182	.975 6763	5606		115.63
•133	.947 6452	5836	54 17 45.86	120.38	.183	.976 2367	5601		115.54
.134	.948 2286	5831	54 19 46.18	120.28	.184	.976 7966	5597	55 57 58.76	115.44
1.135	0.948 8115	5826	54 21 46.41	120.18	1.185	0.977 3560	5592	55 59 54.15	115.35
.136	•949 3939	5822	54 23 46.54	120.08	. 186	.977 9150	5588	56 OI 49.45	115.25
.137	•949 9758	5817	54 25 46.58	119.98	.187	.978 4735	5583	56 03 44.66	115.16
.138	•950 5573	5812	54 27 46.51	119.89	.188	.979 0316	5578	56 05 39.76	115.06
.139	.951 1383	5807	54 29 46.35	119.79	.189	.979 5892	5574	56 07 34.78	114.96
1.140	0.951 7188	5803	54 31 46.09	119.69	1.190		5569		114.87
.141	.952 2988	5798	54 33 45 74	119.59	.191	.980 7030	5564	56 11 24.51	114.77
.142	952 8784	5793	54 35 45.28	119.50	.192	.981 2592	5560	56 13 19.24	114.68
•143	•953 4575		54 37 44 73	119.40	.193	.981 8149	5555	56 15 13.87	114.58
•144	.954 0361	5784	54 39 44.08	119.30	.194	.982 3702	5551		114.49
1.145	0.954 6143	57 <b>7</b> 9	54 41 43.34	119.21	1.195	0.982 9251	5546		114.39
.146	.955 1920	5775	54 43 42 49	119.11	.196	.983 4794	5541		114.30
.147	.955 7692	5770	54 45 41.55	119.01	197		5537		114.20
.148	.956 3460 .956 9222	5765 5760	54 47 40.51 54 49 39.38	118.91	.198 .199	.984 5868	5532 5527		114.11 114.01
1.150		5756			1.200			56 28 33.62	113.92
U	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	ω sech u
	. 2.	100	)	1			L.		

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u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> /	u	gd u	ωFo'	gd y	ωF <sub>0</sub> ′
1.200 .201 .202 .203 .204	0.985 6922 .986 2443 .986 7959 .987 3470 .987 8977	5523 5518 5514 5509 5504	56 28 33.62 56 30 27.49 56 32 21.26 56 34 14.94 56 36 08.53	" 113.92 113.82 113.73 113.63 113.54	1.250 .251 .252 .253 .254	1.012 7356 .013 2649 .013 7938 .014 3222 .014 8502	5295 5291 5286 5282 5277	58 01 31.72 58 03 20.89 58 05 09.98 58 06 58.98 58 08 47.88	109.13
1.205	0.988 4479	5500	56 38 02.02	113.44	1.255	1.015 3777	5273	58 10 36.69	108.67
.206	.988 9977	5495	56 39 55.42	113.35	.256	.015 9048	5269	58 12 25.40	
.207	.989 5470	5491	56 41 48.72	113.25	.257	.016 4314	5264	58 14 14.03	
.208	.990 0958	5486	56 43 41.92	113.16	.258	.016 9576	5260	58 16 02.56	
.209	.990 6442	5482	56 45 35.03	113.06	.259	.017 4833	5255	58 17 51.00	
1:210	0.991 1921	5477	56 47 28.05	112.97	1.260	1.018 0086	5251	58 19 39 35	108.30
.211	.991 7396	5472	56 49 20.97	112.88	.261	.018 5335	5246	58 21 27 61	108.21
.212	.992 2866	5468	56 51 13.80	112.78	.262	.019 0578	5242	58 23 15 77	108.12
.213	.992 8331	5463	56 53 06.54	112.69	.263	.019 5818	5237	58 25 03 84	108.03
.214	.993 3792	5459	56 54 59.17	112.59	.264	.020 1053	5233	58 26 51 82	107.93
1.215	0.993 9249	5454	56 56 51.72	112.50	1.265	1.020 6283	5228	58 28 39.71	107.84
.216	.994 4700	5449	56 58 44.17	112.40	.266	.021 1510	5224	58 30 27.50	107.75
.217	.995 0148	5445	57 00 36.53	112.31	.267	.021 6731	5219	58 32 15.21	107.66
.218	.995 5590	5440	57 02 28.79	112.22	.268	.022 1948	5215	58 34 02.82	107.57
.219	.996 1028	5436	57 04 20.96	112.12	.269	.022 7161	5210	58 35 50.34	107.47
1.220	0.996 6462	5431	57 06 13.03	112.03	1.270	1.023 2369	5206	58 37 37.77	107.38
.221	.997 1891	5427	57 08 05.01	111.93	.271	.023 7573	5202	58 39 25.10	107.29
.222	.997 7315	5422	57 09 56.90	111.84	.272	.024 2772	5197	58 41 12.35	107.20
.223	.998 2735	5418	57 11 48.69	111.74	.273	.024 7967	5193	58 42 59.50	107.11
.224	.998 8150	5413	57 13 40.39	111.65	.274	.025 3158	5188	58 44 46.56	107.02
1.225	0.999 3561	5408	57 15 31.99	111.56	1.275	1.025 8344	5184	58 46 33.53	106.92
.226	.999 8967	5404	57 17 23.50	111.46	.276	.026 3526	5179	58 48 20.41	106.83
.227	1.000 4369	5399	57 19 14.92	111.37	.277	.026 8703	5175	58 50 07.20	106.74
.228	.000 9766	5395	57 21 06.24	111.28	.278	.027 3876	5171	58 51 53.90	106.65
.229	.001 5158	5390	57 22 57.47	111.18	.279	.027 9044	5166	58 53 40.50	106.56
1.230	1.002 0546	5386	57 24 48.60	111.09	1.280	1.028 4208	5162	58 55 27.02	106.47
.231	.002 5930	5381	57 26 39.64	110.99	.281	.028 9367	5157	58 57 13.44	106.38
.232	.003 1309	5377	57 28 30.59	110.90	.282	.029 4523	5153	58 58 59.77	106.29
.233	.003 6683	5372	57 30 21.45	110.81	.283	.029 9673	5148	59 00 46.01	106.19
.234	.004 2053	5368	57 32 12.21	110.71	.284	.030 4819	5144	59 02 32.16	106.10
1.235	1.004 7418	5363	57 34 02.88	110.62	1.285	1.030 9961	5140		106.01
.236	.005 2779	5359	57 35 53.45	110.53	.286	.031 5099	5135		105.92
.237	.005 8135	5354	57 37 43.93	110.43	.287	.032 0232	5131		105.83
.238	.006 3487	5349	57 39 34.32	110.34	.288	.032 5360	5126		105.74
.239	.006 8834	5345	57 41 24.61	110.25	.289	.033 0485	5122		105.65
1.240 .241 .242 .243 .244	1.007 4177 .007 9515 .008 4840 .009 0178 .009 5503	5340 5336 5331 5327 5322	57 43 14.82 57 45 04.92 57 46 54.94 57 48 44.86 57 50 34.69	110.15 110.06 109.97 109.88 109.78	1,290 ,291 ,292 ,293 ,294	1.033 5605 .034 0720 .034 5831 .035 0938 .035 6040		59 14 52.66	105.29
1.245 .246 .247 .248 .249	1.010 0823 .010 6139 .011 1450 .011 6756 .012 2058	5309 5304	57 52 24.43 57 54 14.07 57 56 03.62 57 57 53.08 57 59 42.44	109.69 109.60 109.50 109.41 109.32	1.295 .295 .297 .298 .299	1.036 1138 .036 6231 .037 1320 .037 6405 .038 1485	5096 5091 5087 5083 5078	59 23 38.87	105.11 105.02 104.93 104.83 104.74
1.250 u	$\frac{1.012 \ 7356}{2 \tan^{-1}(e^{u}) - \frac{\pi}{2}}$	5295 ω sech u	58 OI 31.72 2 tan <sup>-1</sup> (eu)-90°	109.23 ω sech u	1.300 u	1.038 6561 2 tan <sup>-1</sup> (eu) $-\frac{\pi}{2}$	5074 ∞ sech u	59 30 38.21 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	

u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	<b>ψF</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	# gd u	ωF <sub>0</sub> ′
1.300	1.038 6561	5074	59 30 38.21	,, 104.65	1.350	1.063 4837	4858	ço 55 59.27	100,21
.301	.039 1633	5069	59 32 22.82	104.56	.351	.063 9694	4854	60 57 39.43	100.12
.302	039 6700	5065	59 34 07.34	104.47	.352	.064 4546	4850	60 59 19.51	100.03
.303	.040 1763	5061	59 35 51.77	104.38	•353	.064 9393	4846	61 00 59.50	99.95
.304	.040 6822	5056	59 37 36.10	104.29	•354	.065 4237	4841	бі <b>02</b> 39.41	99.86
1.305	1.041 1876	5052	59 39 20.35	104.20	1.355	1.065 9076	4837	61 04 19.22	99.77
.305	.041 6926	5048	59 41 04.51	104.11	.356	.066 3911	4833	61 05 58.95	99.69
307	.042 1971	5043	59 42 48.58	104.02	•357	.066 8742	4829		99.60
.308	.042 7012 .043 2049	5039 5035	59 44 32.56 59 46 16.45	103.93	•358 •359	.067 3568 .067 8390	4824 4820	61 09 18.15	99.44
1.310	1.043 7081	5030	59 48 00.25	103.76	1.360	1.068 3209	4816	61 12 36.99	99.34
.311	.044 2109	5026	59 49 43.96	103.67	.361	.068 8022	4812	61 14 16.29	99.2
.312	.044 7133	5021	59 51 27.58	103.58	.362	.069 2832	4808	61 15 55.49	99.16
313	.045 2152	5017	59 53 11.11	103.49	<b>.3</b> 63	.069 <i>7</i> 637	4803	61 17 34.61	99.08
.314	.045 7167	5013	59 54 54 55	103.40	• 364	.070 2439	4799	61 19 13.64	98.99
1.315	1.046 2178	5008	59 56 37.91	103.31	1.365	1.070 7236	4795	бі 20 52.59	98.90
.316	.046 7184	5004 5000	59 58 21.17 60 00 04.34	103.22	.366 .367	.071 2028	4791 4786	61 22 31.45 61 24 10.22	98.8
·317	.047 7184	4995	60 00 04.34 60 01 47.43	103.13	368	.072 1601	4782	61 25 48.90	98.6
.319	.048 2177	4991	60 03 30.42	102.95	.369	.072 6382	4778	61 27 27.50	98.50
1.320	1.048 7166	4987	60 05 13.33	102.86	1.370	1.073 1158	4774	61 29 06.01	98.4
.321	.049 2151	4983	60 06 56.14	102.77	.371	.073 5929	4770	61 30 44.44	98.3
.322	.049 7131		60 08 38.87	102.68	.372	.074 0697		61 32 22.78	98.30
·323 ·324	.050 2107 .050 7079	4974 4970	60 10 21.51 60 12 04.06	102.59 102.50	·373 ·374	.074 5460	4761 4757	61 34 01.03 61 35 39.20	98.2 98.1
1.325	1.051 2046	4965	60 13 46.52	102.42	1.375	1.075 4975	4753	бі 37 17.28	98.0
326	.051 7009	4961	60 15 28.89	102.33	.376	.075 9725		61 38 55.27	97.9
.327	.052 1968		60 17 11.17	102.24	.377	.076 4472		61 40 33.18	97.80
.328	.052 6923	4952	60 18 53.37	102.15	.378	.076 9215		61 42 11,00	97.7
•329	.053 1873	4948	60 20 35.47	102.06	•379	.077 3953	4736	61 43 48.73	97.6
1.330	1.053 6819	4944	60 22 17.49	101.97	1.380	1.077 8687	4732	61 45 26.38	97.6
•33I	.054 1760 .054 6698	4939 4935	60 23 59.41 60 25 41.25		.381	.078 3417		61 47 03.94 61 48 41.42	97 · 5
.332	.055 1631	4933	60 27 23.00		.383	.079 2865		61 50 18.81	97.3
•334	.055 6559	4927	60 29 04.67	101.62	.384	.079 7582	4715		97.2
1.335	1.056 1484	4922	60 30 46.24	101.53	1.385	1.080 2295	4711	61 53 33.34	97.1
.336	.056 6404	4918	60 32 27.72	101.44	. 386	.080 7005		61 55 10.47	97.0
•337	.057 1320	4914	60 34 09.12	101.35	.387	.081 1710	4703		97.0
.338	.057 6231	4909			.388 .389	.081 6411		61 58 24.48 62 00 01.36	96.9
•339	.058 1139	4905	10 mg 36 mm 40 m	101.18					
1.340 .341	1.058 6042	4901 4897	60 39 12.78 60 40 53.83	101.00	1.390 .391	1.082 5800 .083 0488		62 01 38.15 62 03 14.86	96.7
.342	.059 5835	4892	60 42 34.78		.392	.083 5173		62 04 51.48	96.5
•343	.060 0725	4888	60 44 15.65		393	.083 9853	4678	62 06 28.01	96.4
•344	.060 5611	4884	60 45 56.43	100.74	•394	.084 4529	4674	62 08 04.46	96.4
1.345	1.061 0493	4880	60 47 37.12		1.395	1.084 9201	4670	62 09 40.83	96.3
.346	.061 5370	4875	60 49 17.73		.396	.085 3868		62 11 17.11	96.2
•347 •348	.062 0243	4871 4867	60 50 58.24		·397 ·398	.085 8532		62 12 53.30 62 14 29.41	96.1 96.0
•349	.062 9977	4863	60 54 19.01		.399	.086 7847	4653	62 16 05.44	95.9
1.350	1.063 4837	4858	60 55 59.27	100.21	1.400	1.087 2498	4649	62 17 41.37	95.9
		o o californ	C. A. C. WHINE THE WORLD		<b></b>			Schilledores	
u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	wsechu	2 tan-1(eu)-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	wsechu	2 tan -1(eu)-90°	ω sech

The Gudermannian.

u	gđ u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> '	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
			0 1 11					0 / //	"
1.400	1.087 2498	4649	62 17 41.37	95.90	1.450	1.109 9869		63 35 51.24	91.72
.401	.087 7145	4645	62 19 17.23	95.81	-451	.110 4314	4443	63 37 22.92	
.402	.088 1788	4641	62 20 53.00	95.73	.452	.110 8755	4439	63 38 54.52	91.56
•403 •404	.088 6427	4637 4633	62 22 28.68	95.64 95.56	•453 •454	.111 3192	4435 4431	63 40 26.03 63 41 57.46	91.47 91.39
		}							
1.405 .406	1.089 5693	4629 4625	62 25 39.80	95·47 95·39	1.455 .456	1.112 2053	4427 4423	63 43 28.82 63 45 00.08	91.31 91.23
.407	090 4942	4620	62 28 50.58	95.30	·457	.113 0899	4419	63 46 31.27	91.15
.408	.090 9561	4616	62 30 25.84	95.22	.458	.113 5316	4415	63 48 02.38	91.07
.409	.091 4175	4612	62 32 01.02	95.14	459	.113 9729	4411	63 49 33.40	90.98
1.410	1.091 8785	4608	62 33 36.11	95.05	1.460	1.114 4138	4407	63 51 04.35	90.90
.411	.092 3391	4604	62 35 11.12	94.97	.461	.114 8543	4403	63 52 35.21	90.82
.412	<b>.0</b> 92 7993	4600	62 36 46.04	94.88	.462	.115 2944	4399	63 54 05.99	90.74
•413	.093 2591	4596	62 38 20.88	94.80	.463	.115 7341	4395	63 55 36.68	90.66
•414	.093 7185	4592	62 39 55.64	94.71	.464	.116 1734	4391	63 57 07.30	90.58
1.415	1.094 1775	4588	62 41 30.31	94.63	1.465	1.116 6124	4387	63 58 37.83	90.49
.416 .417	.094 6361	4584 4580	62 43 04.90	94.55 94.46	.466 .467	.117 0509		64 00 08.29	90.41
.418	.095 5520	4576	62 46 13.82	94.40	.468	.117 4890	4379 4375	64 01 38.66	90.33
.419	.095 0094	4571	62 47 48.16	94.29	.469	.118 3641	4373	64 04 39.16	90.23
									2233 234 245 E
1.420	1.096 4663	4567	62 49 22.41	94.21	1.470	1.118 8011	4368		90.09
.421	.096 9228	4563	62 50 56.58	94.13	•47I	.119 2377		64 07 39.34	90.01
.422	.097 3790	4559	62 52 30.66	94.04	.472	.119 6738		64 09 09.31	89.93
.423 .424	.097 8347	4555 4551	62 54 04.66 62 55 38.58	93.96 93.88	•473	.120 1096	4356	64 10 39.19	89.85 89.76
		1,41	The state of the state of		•474	.120 5450	4352		İ
1.425	1.098 7449	4547	62 57 12.41	93.79	1.475	1.120 9800	4348	64 13 38.72	89.68
426	.099 1994	4543	62 58 46.16 63 00 19.83	93.71	.476	.121 4146	4344	64 15 08.37	89.60
.427	.099 6536 .100 1073	4539 4535	63 01 53.41	93.62 93.54	•477 •478	121 8488		64 16 37.93	89.52
.429	.100 5606	4531 4531	63 03 26.91	93.46	.479	.122 7161	4336 4332	64 19 36.81	89.36
organization.	1200 3000	433-		90.40				İ	09.30
1.430	1.101 0134	4527	63 05 00.33	93.37	1.480		4328		89.28
.431	.101 4659	4523	63 06 33.66	93.29	.481	.123 5818	4325		89.20
•432	.101 9180	4519	63 08 06.91	93.21	.482	.124 0140		64 24 04.53	89.12
•433	.102 3697	4515	63 09 40.08	93.13	.483	.124 4459	4317		89.04
•434	.102 8210	4511	63 11 13.16	93.04	.484	.124 8774	4313	64 27 02.61	88.96
1.435	1.103 2719	4507	63 12 46.16	92.96	1.485	1.125 3085	4309		88.88
.436	.103 7223	4503	63 14 19.08	92.88	.486	.125 7392	4305		88.80
•437	.104 1724	4499	63 15 51.91	92.79	•487	.126 1695		64 31 29.13	88.72
.438	.104 6221	4495	63 17 24.66	92.71	.488	.126 5994	4297	64 32 57.81	88.64
•439	.105 0714	4491	63 18 57.33	92.63	.489	.127 0289	4293	64 34 26.41	88.56
1.440	1.105 5202	4487	63 20 29.92	92.54	1,490		4290		88.48
.441	.105 9687	4483		92.46	.491	.127 8869	4286	64 37 23.37	88.40
.442	.106 4168		63 23 34.84			.128 3152	4282	64 38 51.72	88.32
•443	.106 8644		63 25 07.18	92.30	•493	128 7432	4278		88.24
•444	.107 3117	4471		92.21	•494	.129 1708	4274	64 41 48.20	88.16
1.445	1.107 7586	4467	63 28 11.61	92.13	1.495	1.129 5980	4270	64 43 16.32	88.08
.446	.108 2050		63 29 43.70	92.05	.496	.130 0249		64 44 44.36	88.00
•447	.108 6511		63 31 15.71	91.97	•497	.130 4513		64 46 12.32	87.92 87.84
.448 .449	.109 0968	4455 4451	63 32 47.63 63 34 19.48	91.88 91.80	.498 .499	.130 8774	4259 4255		87.84
my service and the	e di Welet e Alekta						ļ		
1.450	1.109 9869	4447	63 35 51.24	91.72	1.500	1.131 7283	4251	64 50 35.73	87.68
u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	ω sech μ	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	ω sech u
	) 2			2.00. µ		1 2	l	<u> </u>	

The Gudermannian.

u	gd u	ω <b>F</b> <sub>0</sub> /	gd u	ωF <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
1.500 .501 .502 .503 .504	1.131 7283 .132 1532 .132 5778 .133 0019 .133 4257	4251 4247 4243 4239 4236	64 50 35.73 64 52 03.37 64 53 30.93 64 54 58.42 64 56 25.82	87.68 87.60 87.52 87.44 87.37	1.550 .551 .552 .553 .554	1.152 5078 .152 9139 .153 3195 .153 7248 .154 1297	4058	66 02 01.81 66 03 25.55 66 04 49.22 66 06 12.81 66 07 36.33	83.78 83.71 83.63 83.55 83.48
1.505 .506 .507 .508 .509	1.133 8490 .134 2720 .134 6946 .135 1168 .135 5387	4232 4228 4224 4220 4216	64 57 53.15 64 59 20.40 65 00 47.56 65 02 14.65 65 03 41.66	87.29 87.21 87.13 87.05 86.97	1.555 .556 .557 .558 .559	1.154 5342 .154 9384 .155 3421 .155 7456 .156 1486		66 08 59.77 66 10 23.14 66 11 46.42 66 13 09.63 66 14 32.77	83.40 83.33 83.25 83.17 83.10
1.510 .511 .512 .513 .514	1.135 9601 .136 3812 .136 8019 .137 2222 .137 6421	4213 4209 4205 4201 4197	65 05 08.59 65 06 35.44 65 08 02.22 65 09 28.91 65 10 55.53	86.89 86.81 86.73 86.66 86.58	1.560 .561 .562 .563 .564	1.156 5513 .156 9536 .157 3556 .157 7571 .158 1583		66 20 04.55	83.02 82.95 82.87 82.79 82.72
1.515 .516 .517 .518	1.138 0617 .138 4808 .138 8996 .139 3180 .139 7360	4194 4190 4186 4182 4178	65 12 22.07 65 13 48.52 65 15 14.91 65 16 41.21 65 18 07.43	86.50 86.42 86.34 86.26 86.18	1.565 .566 .567 .568 .569	1.158 5592 .158 9597 .159 3598 .159 7595 .160 1589	4007 4003 3999 3996 3992	66 22 49.99 66 24 12.59 66 25 35.12 66 26 57.57 66 28 19.95	82.64 82.57 82.49 82.42 82.34
I.520 .521 .522 .523 .524	1.140 1537 .140 5709 .140 9878 .141 4043 .141 8205	4175 4171 4167 4163 4159		86.11 86.03 85.95 85.87 85.79	1.570 .571 .572 .573 .574	1.160 5579 .160 9566 .161 3548 .161 7527 .162 1503	3988 3985 3981 3977 <b>397</b> 4	66 29 42.25 66 31 04.48 66 32 26.63 66 33 48.71 66 35 10.71	82.26 82.19 82.11 82.04 81.96
1.525 .526 .527 .528 .529	1.142 2362 .142 6516 .143 0666 .143 4812 .143 8954	4156 4152 4148 4144 4141	65 29 34.41	85.72 85.64 85.56 85.48 85.40	1.575 .576 .577 .578 .579	.162 9443 .163 <b>3</b> 408	3970 3966 3963 3959 3955	66 36 32.63 66 37 54.48 66 39 16.26 66 40 37.96 66 41 59.58	81.89 81.81 81.74 81.66 81.59
1.530 .531 .532 .533	1.144 3093 .144 7228 .145 1359 .145 5486 .145 9610	4125	65 35 16.02 65 36 41.23	85.33 85.25 85.17 85.09 85.02	1.580 .581 .582 .583 .584	1.164 5279 .164 9230 .165 3176 .165 7119 .166 1058	3952 3948 3945 3941 3937	66 43 21.13 66 44 42.61 66 46 04.01 66 47 25.33 66 48 46.58	81.51
1.535 .536 .537 .538 .539	1.146 3730 .146 7846 .147 1958 .147 6067 .148 0172	4114 4110 4107	65 40 56.40 65 42 21.30 65 43 46.12 65 45 10.87 65 46 35.54	84.94 84.86 84.78 84.71 84.63	1.585 .586 .587 .588 .589	1.166 4993 .166 8925 .167 2854 .167 6778 .168 0699	3930	66 50 07.76 66 51 28.86 66 52 49.89 66 54 10.84 66 55 31.72	81.14 81.06 80.99 80.92 80.84
1.540 .541 .542 .543 .544	1.148 4273 .148 8370 .149 2464 .149 6554 .150 0640	4095 4092 4088	65 48 00.13 65 49 24.64 65 50 49.08 65 52 13.44 65 53 37.72	84.48 84.40 84.32	1.590 .591 .592 .593 .594	.168 8531 .169 2441 .169 6348	3912 3908 3905	66 56 52.52 66 58 13.25 66 59 33.91 67 00 54.49 67 02 15.00	80.69 80.62
1.545 .546 .547 .548 .549	.150 8801 .151 2876	4081 4077 4073 4069	65 55 01.93 65 56 26.06 65 57 50.11 65 59 14.08 66 00 37.98	84.17 84.09 84.01 83.94	1.595 .596 .597 .598	1.170 4150 .170 8046 .171 1938 .171 5827	3894 3891 3887	67 03 35.43 67 04 55.79 67 06 16.07 67 07 36.28 67 08 56.42	80.40 80.32 80.25 80.17 80.10
1.550	1.152 5078	4062	66 02 01.81	83.78	1.600	1.172 3594	3880	67 10 16.48	80.03
u	2 tan <sup>-1</sup> (e <sup>u</sup> ) - $\frac{\pi}{2}$	ω sech μ	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	∞ sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan <sup>1</sup> (e <sup>u</sup> )90 <sup>c</sup>	∞ sech u

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u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> //	u	gđ u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
1.600 .601 .602 .603 .604	1.172 3594 .172 7472 .173 1346 .173 5217 .173 9084	3880 3876 3873 3869 3865	67 11 36.47 67 12 56.39 67 14 16.23	80.03 79.95 79.88 79.81 79.73	1.650 .651 .652 .653 .654	1.191 3170 .191 6872 .192 0571 .192 4267 .192 7960	3704 3701 3697 3694 3691	68 16 43.13 68 17 59.44	76.41 76.34 76.27 76.20 76.12
1.605 .606 .607 .608 .609	1.174 2948 .174 6808 .175 0665 .175 4518 .175 8367		67 16 55.69 67 18 15.31 67 19 34.86 67 20 54.34 67 22 13.74	79.66 79.58 79.51 79.44 79.36	1.655 .656 .657 .658 .659	1.193 1648 .193 5334 .193 9016 .194 2695 .194 6370	3687 3684 3680 3677 3674	68 21 47.92 68 23 03.93 68 24 19.88 68 25 35.76 68 26 51.57	76.05 75.98 75.91 75.84 75.77
1.610 .611 .612 .613 .614	1.176 2213 .176 6056 .176 9895 .177 3730 .177 7562	3837	67 24 52.32 67 26 11.50 67 27 30.61	79.29 79.22 79.15 79.07 79.00	1.660 .661 .662 .663 .664	1.195 0042 .195 3710 .195 7375 .196 1037 .196 4695	3670 3667 3663 3660 3656		75.70 75.63 75.56 75.49 75.43
1.615 .616 .617 .618 .619	1.178 1390 .178 5215 .178 9036 .179 2853 .179 6667	3819	67 30 08.61 67 31 27.50 67 32 46.32 67 34 05.06 67 35 23.73	78.93 78.85 78.78 78.71 78.63	1.665 .666 .667 .668	1.196 8349 .197 2001 .197 5649 .197 9293 .198 2935	3653 3650 3646 3643 3639	68 35 40.24	75.36 75.29 75.22 75.15 75.08
1.620 .621 .622 .623 .624	1.180 0478 .180 4285 .180 8089 .181 1889 .181 5685		67 36 42.33 67 38 00.86 67 39 19.31 67 40 37.69 67 41 56.00	78.56 78.49 78.42 78.34 78.27	1.670 .671 .672 .673	1.198 6572 .199 0207 .199 3838 .199 7465 .200 1090	3636 3633 3629 3626 3623	68 41 55.77 68 43 10.66	75.01 74.94 74.87 74.80 74.72
1.625 .626 .627 .628 .629	1.181 9478 .182 3268 .182 7054 .183 0836 .183 4615		67 43 14.24 67 44 32.40 67 45 50.49 67 47 08.51 67 48 26.46	78.20 78.13 78.06 77.98 77.91	1.675 .676 .677 .678	1.200 4711 .200 8328 .201 1942 .201 5553 .201 9160	3619 3616 3612 3609 3606	68 48 09.55	74.65 74.58 74.51 74.44 74.37
1.630 .631 .632 .633 .634	1.183 8390 .184 2162 .184 5931 .184 9696 .185 3457	3763	67 49 44 33 67 51 02 13 67 52 19 86 67 53 37 52 67 54 55 11	77.84 77.77 77.69 77.62 77.55	1.680 .681 .682 .683 .684	1.202 2764 .202 6365 .202 9962 .203 3556 .203 7147	3602 3599 3596 3592 3589	68 54 21.58	74.30 74.23 74.17 74.10 74.03
1.635 .636 .637 .638 .639	1.185 7215 .186 0970 .186 4721 .186 8469 .187 2213	3756 3753 3749 3746 3742	67 56 12.62 67 57 30.07 67 58 47.44 68 00 04.74 68 01 21.97	77.48 77.41 77.34 77.26 77.19	1.685 .686 .687 .688 .689	1.204 0734 .204 4318 .204 7899 .205 1476 .205 5050	3586 3582 3579 3576 3572	69 00 31.89	73.96 73.89 73.82 73.75 73.68
1.640 .641 .642 .643 .644	1.187 5953 .187 9691 .188 3424 .188 7155 .189 0881	3729	68 02 39.12 68 03 56.21 68 05 13.22 68 06 30.16 68 07 47.03	77.12 77.05 76.98 76.91 76.83	1.690 .691 .692 .693 .694	1.205 8620 .206 2187 .206 5751 .206 9312 .207 2869	3559		73.61 73.54 73.48 73.41 73.34
1.645 .646 .647 .648 .649	1.189 4605 .189 8325 .190 2041 .190 5754 .190 9463	3718 3715 3711	68 09 03.83 68 10 20.56 68 11 37.22 68 12 53.80 68 14 10.32	76.76 76.69 76.62 76.55 76.48	1.695 .696 .697 .698 .699	1.207 6423 .207 9974 .208 3521 .208 7065 .209 0605	3549 3546	69 11 34.11 69 12 47.34 69 14 00.51 69 15 13.61 69 16 26.64	73.27 73.20 73.13 73.07 73.00
	1.191 3170		68 15 26.76	76.4I ∞ sech u		1.209 4143		69 17 39.60 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	72.93
u SMITHSO	2 tan-1(eu)-2	∞ secn u	2 tan-1(eu)-90°	w secn u	u	z tan <sup></sup> (e <sup>u</sup> )-2	∞ sech u	2 tan-1(eu)-90°	ω sech u
SMITHSO			e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la companya de la companya de la companya de la companya de la companya de la companya de la co	29	)2				

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u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
1.700 .701 .702 .703 .704	1.209 4143 .209 7677 .210 1208 .210 4735 .210 8259	3532 3529 3526	69 17 39.60 69 18 52.50 69 20 05.32 69 21 18.08 69 22 30.77	72.93 72.86 72.79 72.72 72.66	1.750 .751 .752 .753 .754	1.226 6847 .227 0219 .227 3588 .227 6954 .228 0316	3374 3370 3367 3364 2361	70 17 01.89 70 18 11.44 70 19 20.93 70 20 30.35 70 21 39.71	69.59 69.52 69.45 69.39 69.32
1.705 .706 .707 .708 .709	1.211 1780 .211 5297 .211 8812 .212 2323 .212 5830	3516 3513 3500	69 23 43.39 69 24 55.95 69 26 08.43 69 27 20.85 69 28 33.20	72.59 72.52 72.45 72.38 72.32	1.755 .756 .757 .758 .759	1.228 3676 .228 7032 .229 0385 .229 3735 .229 7082	3358 3355 3351 3348 3345	70 22 49.00 70 23 58.23 70 25 07.39 70 26 16.48 70 27 25.51	69.26 69.19 69.13 69.06 69.00
1.710 .711 .712 .713 .714	1.212 9335 .213 2836 .213 6334 .213 9828 .214 3319	3499 3496	69 29 45.49 69 30 57.70 69 32 09.85 69 33 21.93 69 34 33.94	72.25 72.18 72.11 72.05 71.98	1.760 .761 .762 .763 .764	1.230 0425 .230 3765 .230 7103 .231 0437 .231 3768	3342 3339 3336 3333 3329	70 28 34.48 70 29 43.38 70 30 52.22 70 32 00.99 70 33 09.69	68.93 68.87 68.80 68.74 68.67
1.715 .716 .717 .718 .719	1.214 6807 .215 0292 .215 3774 .215 7252 .216 0727	3483 3480	69 35 45.89 69 36 57.76 69 38 09.57 69 39 21.32 69 40 32.99	71.91 71.84 71.78 71.71 71.64	1.765 .766 .767 .768 .769	1.231 7096 .232 0420 .232 3742 .232 7060 .233 0376	3326 3323 3320 3317 3314	70 34 18.33 70 35 26.91 70 36 35.42 70 37 43.87 70 38 52.25	68.61 68.54 68.48 68.42 68.35
1.720 .721 .722 .723 .724	1.216 4198 .216 7667 .217 1132 .217 4594 .217 8053	3467	69 41 44.60 69 42 56.14 69 44 07.62 69 45 19.02 69 46 30.37	71.58 71.51 71.44 71.37 71.31	1.770 .771 .772 .773 .774	1.233 3688 .233 6997 .234 0303 .234 3606 .234 6905	3311 3307 3304 3301 3298	70 40 00.57 70 41 08.83 70 42 17.02 70 43 25.14 70 44 33.20	68.29 68.22 68.16 68.09 68.03
1.725 .726 .727 .728 .729	1.218 1508 .218 4960 .218 8409 .219 1855 .219 5297	3454 3451 3447 3444 <b>3</b> 441	69 47 41.64 69 48 52.85 69 50 03.99 69 51 15.06 69 52 26.06	71.23 71.16 71.10 71.03 70.96	1.775 .776 .777 .778 .779	1.235 0202 .235 3195 .235 6786 .236 0073 .236 3357	3295 3292 3289 3286 3283	70 45 41.20 70 46 49.13 70 47 57.00 70 49 04.80 70 50 12.54	67.96 67.90 67.84 67.77 67.71
1.730 .731 .732 .733 .734	1.219 8737 .220 2173 .220 5605 .220 9035 .221 2461	3438 3434 3431 3428 3425	69 53 37.96 69 54 47.88 69 55 58.68 69 57 09.42 69 58 20.10	70.90 70.83 70.76 70.70 70.63	1.780 .781 .782 .783 .784	1.236 6638 .236 9916 .237 3191 .237 6463 .237 9731	3279 3276 3273 3270 3267	70 51 20.22 70 52 27.83 70 53 35.38 70 54 42.87 70 55 50.29	67.64 67.58 67.52 67.45 67.39
1.735 .736 .737 .738 .739	1.221 5885 .221 9304 .222 2721 .222 6135 .222 9545	3422 3418 3415 3412 3409	69 59 30.71 70 00 41.25 70 01 51.72 70 03 02.13 70 04 12.47	70.56 70.50 70.43 70.37 70.30	1.785 .786 .787 .788 .789	1.238 2997 .238 6259 .238 9519 .239 2775 .239 6028	3264 3261 3258 3255 3252	70 56 57.65 70 58 04.94 70 59 12.17 71 00 19.34 71 01 26.44	67.33 67.26 67.20 67.13 67.07
1.740 .741 .742 .743 .744	.223 6356	3405 3402 3399 3396 3393	70 05 22,75 70 06 32,96 70 07 43,10 70 08 53,18 70 10 03,19		1.790 .791 .792 .793 .794	.240 2526		71 04 47.37 71 05 54.22	67.01 66.94 66.88 66.82 66.76
1.745 .746 .747 .748 .749	.225 6712	3390 3386 3383 3380 3377	70 11 13.14 70 12 23.02 70 13 32.84 70 14 42.59 70 15 52.27	69.91 69.85 69.78 69.72 69.65	1.795 .796 .797 .798 .799	.242 1944 .242 5170	3233 3230 3227 3224 3221	71 10 20.99	66.69 66.63 66.57 66.50 66.44
1.750	_	3374	70 17 01.89	69.59	1.800		3218		66.38
u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	ω sech u	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan-1(eu)-90°	ω sech

.801 .802 .803 .804 1.805 .806 .807 .808 .809 1.810 .811 .812 .813 .814 1.815 .816 .817 .818	1.243 1612 .243 4828 .244 8042 .244 1252 .244 4460 1.245 7664 .245 7664 .245 77259 .246 0451 1.246 3640 .247 3190 .247 6367 1.248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .248 2712 .249 8523		71 14 46.75 71 15 53.03 71 16 59.25 71 18 05.41 71 19 11.50 71 20 17.53 71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06	66.38 66.31 66.25 66.19 66.06 65.04 65.88 65.56 65.56 65.56 65.56 65.32 65.32 65.32 65.32 65.33	1.850 .851 .852 .853 .854 1.855 .856 .857 .861 .862 .863 .864 1.865 .866 .867 .868 .869	.219 1826 .259 4890 .259 7952 .260 1011 1.260 4066 .261 3216 .261 6260 1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3066 3063 3060 3057 3054 3051 3048	72 08 45.05 72 09 48.26 72 10 51.41 72 11 54.50 72 12 57.53 72 14 00.50 72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	63.18 63.12 63.00 62.94 62.88 62.82 62.70 62.70 62.58 62.52 62.40 62.34 62.34 62.32 62.16
.802 .803 .804 1.805 .806 .807 .808 .809 1.810 .811 .812 .813 .814 1.815 .816 .817 .818 .819	.243 8042 .244 1252 .244 4460 I.244 7664 .245 0865 .245 4064 .245 7259 .246 0451 I.246 3640 .246 6827 .247 0010 .247 6367 I.247 9541 .248 2712 .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3215 3212 3209 3206 3203 3200 3197 3194 3191 3188 3185 3179 3176 3173 3170 3167 3164 3161	71 14 46.75 71 15 53.03 71 16 59.25 71 18 05.41 71 19 11.50 71 20 17.53 71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	66.31 66.25 66.19 66.66 65.06 65.58 65.63 65.56 65.56 65.56 65.38 65.56 65.38 65.56 65.56	.851 .852 .853 .854 1.855 .856 .857 .861 .862 .863 .864 1.865 .866 .867 .868	.219 1826 .259 4890 .259 7952 .260 1011 1.260 4066 .261 3216 .261 6260 1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3060 3063 3050 3057 3054 3043 3040 3037 3034 3031 3028 3022 3022 3020 3017	72 08 45.05 72 09 48.26 72 10 51.41 72 11 54.50 72 12 57.53 72 14 00.50 72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	63.24 63.18 63.12 63.06 63.00 62.98 62.82 62.70 62.64 62.58 62.52 62.40 62.34 62.28 62.22 62.16
.803 .804 I.805 .806 .807 .808 .809 I.810 .811 .812 .813 .814 I.815 .816 .817 .818 .819 I.820	.244 1252 .244 4460 I.244 7664 .245 0865 .245 4064 .245 7259 .246 0451 I.246 3640 .246 6827 .247 0910 .247 6367 I.247 9541 .248 2712 .248 2712 .248 5880 .249 9208 I.249 5367 .249 8523	3209 3206 3203 3200 3197 3194 3191 3188 3185 3182 3179 3176 3164 3161 3158	71 16 59.25 71 18 05.41 71 19 11.50 71 20 17.53 71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	66. 19 66. 13 66. 66 65. 94 65. 88 65. 75 65. 56 65. 56 65. 56 65. 56 65. 32 65. 32 65. 32 65. 35 65. 39	.853 .854 1.855 .856 .857 .858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	259 7952 .260 1011 1.260 4066 .260 7119 .261 0169 .261 3216 .261 6260 1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3050 3057 3054 3051 3048 3040 3037 3034 3031 3028 3025 3022 3020 3017	72 10 51.41 72 11 54.50 72 12 57.53 72 14 00.50 72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	63.12 63.06 62.94 62.88 62.82 62.76 62.64 62.58 62.52 62.40 62.34 62.28 62.22 62.16
.804 1.805 .806 .807 .808 .809 1.810 .811 .812 .813 .814 1.815 .816 .817 .818 .819 1.820	.244 4460  1.244 7664 .245 0865 .245 4064 .245 7259 .246 0451  1.246 3640 .247 3190 .247 6367  1.248 2712 .248 5880 .248 9046 .249 2208  1.249 5367 .249 8523	3203 3203 3200 3197 3194 3191 3188 3185 3179 3176 3173 3170 3164 3161 3158	71 18 05.41 71 19 11.50 71 20 17.53 71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	66.13 66.06 66.00 65.94 65.88 65.75 65.56 65.56 65.50 65.38 65.38 65.38 65.38 65.38	1.855 .856 .857 .858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	260 1011  1.260 4066 .260 7119 .261 0169 .261 3216 .261 6260  1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438  1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3057 3054 3051 3048 3046 3043 3037 3034 3031 3028 3025 3022 3020 3017	72 11 54.50 72 12 57.53 72 14 00.50 72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	63.06 63.00 62.94 62.88 62.82 62.76 62.64 62.58 62.52 62.40 62.34 62.28 62.22 62.16
.806 .807 .808 .809 I.810 .811 .812 .813 .814 I.815 .816 .817 .818 .819 I.820	.245 0865 .245 4064 .245 7259 .246 0451 I.246 3640 .246 6827 .247 0010 .247 6367 I.247 9541 .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3200 3197 3194 3191 3188 3185 3182 3179 3176 3167 3164 3161	71 20 17.53 71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	66.00 65.94 65.88 65.81 65.75 65.50 65.50 65.50 65.32 65.32 65.32 65.19	.856 .857 .858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	.260 7119 .261 0169 .261 3216 .261 6260 I.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 I.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3051 3048 3046 3043 3040 3037 3034 3031 3028 3025 3022 3020 3017	72 14 00.50 72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 19 14.45 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.94 62.88 62.82 62.76 62.64 62.58 62.52 62.46 62.34 62.28 62.22 62.16
.807 .808 .809 I.810 .811 .812 .813 .814 I.815 .816 .817 .818 .819 I.820	.245 4064 .245 7259 .246 0451 I.246 3640 .246 6827 .247 0010 .247 3190 .247 6367 I.247 9541 .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3197 3194 3191 3188 3185 3179 3176 3173 3170 3167 3164 3161	71 21 23.50 71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.94 65.88 65.69 65.56 65.56 65.56 65.56 65.59 65.59 65.39 65.59 65.39 65.39 65.39	.857 .858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	.261 0169 .261 3216 .261 6260 I.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 I.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3048 3046 3043 3040 3037 3034 3031 3028 3025 3022 3020 3017	72 15 03.41 72 16 06.26 72 17 09.05 72 18 11.78 72 19 14.45 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.88 62.82 62.76 62.70 62.58 62.52 62.40 62.34 62.28 62.22 62.16
.808 .809 1.810 .811 .812 .813 .814 1.815 .816 .817 .818 .819	.245 7259 .246 0451 I.246 3640 .246 6827 .247 0010 .247 3190 .247 6367 I.247 9541 .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3194 3191 3188 3185 3179 3176 3173 3170 3164 3161 3158	71 22 29.41 71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.88 65.81 65.75 65.63 65.56 65.50 65.44 65.38 65.32 65.35 65.19	.858 .859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	.261 3216 .261 6260 1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3046 3043 3040 3037 3034 3031 3028 3025 3022 3020 3017	72 16 06.26 72 17 09.05 72 18 11.78 72 19 14.45 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.82 62.76 62.70 62.58 62.52 62.40 62.34 62.28 62.22 62.16
.809 1.810 .811 .812 .813 .814 1.815 .816 .817 .818 .819 1.820	.246 0451  1.246 3640 .246 6827 .247 0010 .247 3190 .247 6367  1.247 9541 .248 2712 .248 5880 .248 9046 .249 2208  1.249 5367 .249 8523	3191 3188 3182 3179 3176 3173 3170 3164 3161 3158	71 23 35.26 71 24 41.04 71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.81 65.75 65.63 65.56 65.50 65.44 65.38 65.32 65.25 65.19	.859 1.860 .861 .862 .863 .864 1.865 .866 .867 .868	.261 6260  1.261 9302 .262 2340 .262 5375 .262 8408 .263 1438  1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3043 3040 3037 3034 3031 3028 3025 3022 3020 3017	72 17 09.05 72 18 11.78 72 19 14.45 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.76 62.70 62.64 62.58 62.52 62.40 62.34 62.22 62.16
.811 .812 .813 .814 1.815 .816 .817 .818 .819 1.820	.246 6827 .247 0010 .247 3190 .247 6367 I.247 954I .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3185 3182 3179 3176 3176 3167 3164 3161 3158	71 25 46.76 71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.69 65.63 65.50 65.50 65.44 65.38 65.32 65.25 65.19	.861 .862 .863 .864 1.865 .866 .867 .868	. 262 2340 . 262 5375 . 262 8408 . 263 1438 I . 263 4464 . 263 7488 . 264 0509 . 264 3527 . 264 6543	3037 3034 3031 3028 3025 3022 3020 3017	72 19 14.45 72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.64 62.58 62.52 62.46 62.40 62.34 62.28 62.22 62.16
.812 .813 .814 1.815 .816 .817 .818 .819	.247 0010 .247 3190 .247 6367 I.247 954I .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3182 3179 3176 3173 3170 3167 3164 3161 3158	71 26 52.42 71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.63 65.56 65.50 65.44 65.38 65.32 65.25 65.19	.862 .863 .864 1.865 .866 .867 .868	.262 5375 .262 8408 .263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3034 3031 3028 3025 3022 3020 3017	72 20 17.06 72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.58 62.52 62.46 62.40 62.34 62.28 62.16
.813 .814 1.815 .816 .817 .818 .819	.247 3190 .247 6367 I.247 9541 .248 2712 .248 5880 .248 9046 .249 2208 I.249 5367 .249 8523	3179 3176 3173 3170 3167 3164 3161 3158	71 27 58.01 71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.56 65.50 65.44 65.38 65.32 65.25 65.19	.863 .864 1.865 .866 .867 .868	262 8408 263 1438 1.263 4464 263 7488 264 0509 264 3527 264 6543	3031 3028 3025 3022 3020 3017	72 21 19.61 72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.52 62.40 62.34 62.28 62.22 62.16
1.815 .816 .817 .818 .819	.247 6367 1.247 9541 .248 2712 .248 5880 .248 9046 .249 2208 1.249 5367 .249 8523	3176 3173 3170 3167 3164 3161 3158	71 29 03.54 71 30 09.02 71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.50 65.44 65.38 65.32 65.25 65.19	.864 1.865 .866 .867 .868 .869	.263 1438 1.263 4464 .263 7488 .264 0509 .264 3527 .264 6543	3028 3025 3022 3020 3017	72 22 22.10 72 23 24.54 72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.46 62.40 62.34 62.28 62.22 62.16
.816 .817 .818 .819	.248 2712 .248 5880 .248 9046 .249 2208 1.249 5367 .249 8523	3170 3167 3164 3161 3158	71 31 14.42 71 32 19.77 71 33 25.06 71 34 30.28	65.38 65.32 65.25 65.19	.866 .867 .868 .869	.263 7488 .264 0509 .264 3527 .264 6543	3022 3020 3017	72 24 26.91 72 25 29.22 72 26 31.47 72 27 33.67	62.34 62.28 62.22 62.16
.817 .818 .819	.248 5880 .248 9046 .249 2208 1.249 5367 .249 8523	3167 3164 3161 3158	71 32 19.77 71 33 25.06 71 34 30.28	65.32 65.25 65.19	.867 .868 .869	.264 0509 .264 3527 .264 6543	3020 3017	72 25 29.22 72 26 31.47 72 27 33.67	62.28 62.22 62.16
.818 .819	.248 9046 .249 2208 1.249 5367 .249 8523	3164 3161 3158	71 33 25.06 71 34 30.28	65.25 65.19	.868 .869	.264 3527 .264 6543	3017	72 26 31.47 72 27 33.67	62.22 62.16
1.820	1.249 5367 .249 8523	3158		65.19			3014		
	.249 8523		71 35 35 44	65.13	T 870				
			77 26 10 51	65.07	.871	1.264 9555 .265 2565	3011	72 28 35.80	62.11 62.05
.822	.250 1676	3152	71 36 40.54 71 37 45.58	65.01	.872	.265 5571	3005	1 0.	61.99
.823	.250 4826	3149	71 38 50.56	64.95	.873	.265 8575	3002	72 31 41.85	61.93
.824	.250 7973	3146	71 39 55.47	64.88	.874	.266 1576	2999		61.87
	1.251 1118	3143	71 41 00.32	64.82	1.875	1.266 4574	2997	72 33 45 59	61.81
.826 .827	.251 4259	3140 3137	71 42 05.11 71 43 09.84	64.76 64.70	876 877	.266 7569 .267 0562	2994 2991	72 34 47·37 72 35 49·09	61.75 61.69
.828	.252 0532	3134	71 44 14.51	64.64	.878	.267 3551	2988	72 36 50.75	61.63
.829	.252 3664		71 45 19.12	64.58	.879	.267 6538	2985	72 37 52.36	61.57
	1.252 6794	3128	71 46 23.67	64.52	1.880	1.267 9521	2982	72 38 53.90	61.52
.831	.252 9920	3125 3122	71 47 28.15 71 48 32.57	64.45 64.39	.881 .882	.268 2502 .268 5480	2980 2977	72 39 55 39 72 40 56 82	61.46 61.40
.833	.253 6164	3119	71 49 36 94	64.33	.883	.268 8456	2974	72 41 58.19	61.34
.834	.253 9281	3116	71 50 41.24	64.27	.884	.269 1428	2971	72 42 59.50	61.28
	1.254 2396	3113		64.21	1.885 .886	1.269 4398	2968 2965	72 44 00.75 72 45 01.94	61.22 61.16
.836	.254 5507 .254 8616	3110	71 52 49.66 71 53 53.77	64.15 64.00	.887	.269 7364 .270 0328	2962	72 46 03.08	61.11
.838	.255 1721	3104	71 54 57.83	64.03	.888	.270 3289	2960	72 47 04.15	61.05
.839	.255 4824	3101	71 56 01.83	63.97	.889	.270 6248	2957	72 48 05.17	60.99
1.840	1.255 7923 .256 1020	3098	71 57 05.76 71 58 09.64	63.91 63.84	1.890 .891	1.270 9203 .271 2156	2954 2951		60.93
.842	.256 4114	3092		63.78	892	.271 5106		72 51 07.88	60.81
.843	.256 7205	3089	72 00 17.21	63.72	.893	.271 8053	2946	72 52 08.66	60.76
.844	.257 0293	3086	72 01 20.90	63.66	894	.272 0997	2943	72 53 09.39	60.70
1.845	1.257 3378 .257 6460	3084 3081	72 02 24.53 72 03 28.10	63.60 63.54	1.895 .896	1.272 3938	2940 2937	72 54 10.06 72 55 10.67	60.64 60.58
.847	.257 9539	3078	72 03 26.10	63.48	897	.272 9812	2937		60.52
.848	.258 2615	3075	72 05 35.06	63.42	.898	.273 2745	2932	72 57 11.72	60.47
.849	.258 5688	3072	72 06 38.45	63.36	.899	.273 5675	2929	72 58 12.16	60.41
1.850	1.258 8759	3069	72 07 41.78	63.30	1.900	1.273 8603	2926	72 59 12.54	60.35

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u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
1,900	1.273 8603	2926	72 59 12.54	60.35	1.950	1.288 1451	2789	73 48 19.01	57.53
.901	.274 1527	2923	73 00 12.86	60.29	.951	.288 4239	2786	73 49 16.51	57.47
.902	.274 4449	2920	73 01 13.13	60.24	.952	.288 7024	2784	73 50 13.95	57.42
.903	.274 7368	2918	73 02 13.33	60.18	.953	.288 9806	2781	73 51 11.34	57.36
.904	.275 0284	2915	73 03 13.48	60.12	.954	.289 2586	2778	73 52 08.68	57.31
1.905	1.275 3197	2912	73 04 13.58	60.06	1.955	1.289 5363	2776	73 53 05.96	57.25
.906	.275 6108	2909	73 05 13.61	60.01	.956	.289 8137	2773	73 54 03.18	57.20
.907	.275 9016	2906	73 06 13.59	59.95	.957	.290 0909	2770	73 55 00.35	57.14
.908	.276 1921	2904	73 07 13.51	59.89	.958	.290 3678	2768	73 55 57.46	57.09
.909	.276 4823	2901	73 08 13.37	59.83	.959	.290 6444	2765	73 56 54.52	57.03
1.910	1,276 7722	2898	73 09 13.18	59.78	1.960	1.290 9208	2762	73 57 51.53	56.98
.911	.277 0619	2895	73 10 12.92	59.72	.961	.291 1969	2760	73 58 48.48	56.92
.912	.277 3513	2893	73 11 12.62	59.66	.962	.291 4727	2757	73 59 45.38	56.87
.913	.277 6404	2890	73 12 12.25	59.61	.963	.291 7483	2754	74 00 42.22	56.81
.914	.277 9292	2887	73 13 11.83	59.55	.964	.292 0236	2752	74 01 39.00	56.76
1.915 .916 .917 .918	1.278 2178 .278 5061 .278 7941 .279 0818 .279 3693	2884 2881 2879 2876 2873	73 14 11.35 73 15 10.81 73 16 10.22 73 17 09.56 73 18 08.86	59.49 59.43 59.38 59.32 59.26	1.965 .966 .967 .968 .969	1.292 2987 .292 5734 .292 8480 .293 1222 .293 3962	2749 2746 2744 2741 2739	74 02 35.73 74 03 32.41 74 04 29.03 74 05 25.60 74 06 22.12	56.70 56.65 56.60 56.54 56.49
1.920	1.279 6565	2870	73 19 08.09	59.21	1.970	1.293 6699	2736	74 07 18.58	56.43
.921	.279 9434	2868	73 20 07.27	59.15	.971	.293 9434	2733	74 08 14.98	56.38
.922	.280 2300	2865	73 21 06.39	59.09	.972	.294 2166	2731	74 09 11.33	56.32
.923	.280 5164	2862	73 22 05.46	59.04	.973	.294 4895	2728	74 10 07.63	56.27
.924	.280 8024	2859	73 23 04.47	58.98	.974	.294 7622	2725	74 11 03.87	56.22
1.925	1.281 0883	2857	73 24 03.42	58.92	1.975	1.295 0346	2723	74 12 00.06	56.16
.926	.281 3738	2854	73 25 02.32	58.87	.976	.295 3068	2720	74 12 56.20	56.11
.927	.281 6590	2851	73 26 01.16	58.81	.977	.295 5786	2718	74 13 52.28	56.05
.928	.281 9440	2849	73 26 59.94	58.76	.978	.295 8503	2715	74 14 48.30	56.00
.929	.282 2288	2846	73 27 58.67	58.70	.979	.296 1216	2712	74 15 44.28	55.95
1.930	1.282 5132	2843	73 28 57.34	58.64	1.980	1.296 3927	2710	74 16 40.20	55.89
.931	.282 7974	2840	73 29 55.95	58.59	.981	.296 6636	2707	74 17 36.06	55.84
.932	.283 0813	2838	73 30 54.51	58.53	.982	.296 9342	2705	74 18 31.87	55.78
.933	.283 3649	2835	73 31 53.01	58.47	.983	.297 2045	2702	74 19 27.63	55.73
.934	.283 6482	2832	73 32 51.46	58.42	.984	.297 4745	2699	47 20 23.34	55.68
1.935 .936 .937 .938 .939	1.283 9313 .284 2141 .284 4967 .284 7789 .285 0609	2829 2827 2824 2821 2819	73 33 49.85 73 34 48.18 73 35 46.46 73 36 44.68 73 37 42.85	58.36 58.31 58.25 58.19 58.14	1.985 .986 .987 .988 .989	1.297 7443 .298 0139 .298 2832 .298 5522 .298 8210	2697 2694 2692 2689 2686	74 23 10.13 74 24 05.62	55.62 55.57 55.52 55.46 55.41
1.940 .941 .942 .943 .944	1.285 3427 .285 6241 .285 9053 .286 1862 .286 4669	2811 2808	73 38 40.96 73 39 39.01 73 40 37.01 73 41 34.95 73 42 32.84	58.08 58.03 57.97 57.92 57.86	1.990 .991 .992 .993 .994	1.299 0895 .299 3577 .299 6257 .299 8934 .300 1609	2679 2676	74 25 56.44 74 26 51.77 74 27 47.04 74 28 42.27 74 29 37.44	55.36 55.30 55.25 55.20 55.14
1.945 .946 .947 .948 .949	1.286 7473 .287 0274 .287 3072 .287 5868 .287 8661	2802 - 2800 - 2797 - 2794 - 2792	73 45 26.17 73 46 23.84	57.80 57.75 57.69 57.64 57.58	1.995 .996 .997 .998 .999	1.300 4281 .300 6951 .300 9618 .301 2282 .301 4944	2671 2668 2666 2663 2661	74 31 27.62 74 32 22.63 74 33 17.59	55.09 55.04 54.98 54.93 54.88
1.950 u	1.288 1451 2 tan-1(eu) - $\frac{\pi}{2}$	2789 ω sech u	73 48 19.01 2 tan <sup>-1</sup> (e <sup>1</sup> )-90°	57 • 53 ∞ sech u	2.000 u	1.301 7603 2 tan <sup>-1</sup> (e <sup>u</sup> ) $-\frac{\pi}{2}$	2658 ∞ sech u		54.83 ∞ sech u

The Gudermannian.

u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gđ u	ωF <sub>0</sub> ′
2.000 .001 .002 .003 .004	1.301 7603 .302 0260 .302 2914 .302 5566 .302 8215	2658 2655 2653 2650 2648	74 35 07 34 74 36 02 14 74 36 56 89 74 37 51 58 74 38 46 22	54.83 54.77 54.72 54.67 54.61	2.050 .051 .052 .053	1.314 7349 .314 9880 .315 2409 .315 4936 .315 7460	2533 2530 2528 2525 2523	75 19 43.53 75 20 35.75 75 21 27.91 75 22 20.03 75 23 12.09	52.24 52.19 52.14 52.09 52.04
2.005 .006 .007 .008 .009	1.303 0861 .303 3505 .303 6147 .303 8786 .304 1422	2645 2643 2640 2638 2635	74 39 40.81 74 40 35.35 74 41 29.83 74 42 24.26 74 43 18.64	54.56 54.51 54.46 54.40 54.35	2.055 .056 .057 .058 .059	1.315 9982 .316 2501 .316 5018 .316 7532 .317 0044	2520 2518 2516 2513 2511	75 24 04.11 75 24 56.07 75 25 47.98 75 26 39.85 75 27 31.66	51.99 51.94 51.89 51.84 51.79
2.010 .011 .012 .013 .014	1.304 4056 .304 6687 .304 9316 .305 1942 .305 4566	2633 2630 2627 2625 2622	74 44 12.97 74 45 07.24 74 46 01.46 74 46 55.63 74 47 49.74	54.30 54.25 54.19 54.14 54.09	2.060 .061 .062 .063 .064	1.317 2554 .317 5061 .317 7566 .318 0068 .318 2568	2508 2506 2503 2501 2499	75 28 23.42 75 29 15.14 75 30 06.80 75 30 58.41 75 31 49.98	51.74 51.69 51.64 51.59 51.54
2.015 .016 .017 .018 .019	1.305 7187 .305 9805 .306 2421 .306 5035 .306 7646	2620 2617 2615 2612 2610	74 48 43.81 74 49 37.82 74 50 31.78 74 51 25.69 74 52 19.54	54.04 53.99 53.93 53.88 53.83	2.065 .066 .067 .068	1.318 5065 .318 7560 .319 0053 .319 2543 .319 5031	2496 2494 2491 2489 2487	75 32 41 49 75 33 32 95 75 34 24 37 75 35 15 73 75 36 07 04	51.49 51.44 51.39 51.34 51.29
2.020 .021 .022 .023 .024	1.307 0254 .307 2860 .307 5464 .307 8065 .308 0663	2607 2605 2602 2600 2597	74 53 13.35 74 54 07.10 74 55 00.80 74 55 54.45 74 56 48.05	53.78 53.73 53.67 53.62 53.57	2.070 .071 .072 .073 .074	1.319 7516 .319 9999 .320 2480 .320 4958 .320 7433	2484 2482 2479 2477 2475	75 36 58.31 75 37 49.52 75 38 40.69 75 39 31.80 75 40 22.87	51.24 51.19 51.14 51.09 51.04
2.025 .026 .027 .028 .029	1.308 3259 .308 5853 .308 8443 .309 1032 .309 3618	2595 2592 2590 2587 2585	74 57 41.59 74 58 35.08 74 59 28.52 <b>75</b> 00 21.91 75 01 15.25	53.52 53.47 53.42 53.36 53.31	2.075 .076 .077 .078 .079	1.320 9907 .321 2378 .321 4846 .321 7312 .321 9776	2472 2470 2467 2465 2463	75 41 13.89 75 42 04.85 75 42 55.77 75 43 46.64 75 44 37.46	50.99 50.94 50.89 50.84 50.79
2.030 .031 .032 .033 .034	1.309 6201 .309 8782 .310 1361 .310 3936 .310 6510	2582 2580 2577 2575 <b>257</b> 2	75 02 08.54 75 03 01.78 75 03 54.90 75 04 48.09 75 05 41.17	53.26 53.21 53.16 53.11 53.06	2.080 .081 .082 .083	1.322 2238 .322 4697 .322 7153 .322 9608 .323 2059	2460 2458 2455 2453 2451	75 45 28.23 75 46 18.95 75 47 09.62 75 48 00.24 75 48 50.82	50.75 50.70 50.65 50.60 50.55
2.035 .036 .037 .038 .039	1.310 9081 .311 1649 .311 4215 .311 6779 .311 9340	2570 2567 2565 2562 2560	75 06 34.20 75 07 27.18 75 08 20.11 75 09 12.99 75 10 05.81	53.00 52.95 52.90 52.85 52.80	2.085 .086 .087 .088 .089	1.323 4509 .323 6956 .323 9401 .324 1843 .324 4283	2448 2446 2444 2441 2439	75 49 41.34 75 50 31.82 75 51 22.25 75 52 12.62 75 53 02.95	50.50 50.45 50.40 50.35 50.30
2.040 .041 .042 .043 .044	1.312 1898 .312 4455 .312 7008 .312 9559 .313 2108	2557 2555 2552 2550 2547	75 10 58.59 75 11 51.31 75 12 43.98 75 13 36.60 75 14 29.17	52.75 52.70 52.65 52.60 52.55	2.090 .091 .092 .093	1.324 6721 .324 9156 .325 1589 .325 4020 .325 6448	2436 2434 2432 2429 2427	75 53 53.23 75 54 43.46 75 55 33.65 75 56 23.78 75 57 13.86	50.26 50.21 50.16 50.11 50.06
2.045 .046 .047 .048 .049	1.313 4654 .313 7198 .313 9739 .314 2278 .314 4815	2538		52.49 52.44 52.39 52.34 52.29	2.095 .096 .097 .098	1.325 8874 .326 1297 .326 3718 .326 6137 .326 8554	2420	75 58 53.89 75 59 43.83 76 00 33.72	50.01 49.96 49.92 49.87 49.82
2.050	7,37 (2)		75 19 43.53	52.24	2.100	1.327 0968		76 02 13.36	49.77
u	2 tan <sup>-1</sup> (e <sup>α</sup> )-π/2	ω sech u	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan-1(eu)-90°	ω sech u

The Gudermannian.

u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′	u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
iredebi Sekhili			.0 / // /	"		- 0.0	_	0 / //	#
2.100	1.327 0968	2413	76 02 13.36	49.77	2.150	1.338 8732	2298	76 42 42.42	47.41
.101	.327 3380	2411	76 03 03.11	49.72	.151	.339 1029	2296	76 43 29.81	47.36
.102	•327 5789	2408	76 03 52.80	49.67	.152	339 3325	2294	76 44 17.15	47.32
.103	.327 8196	2406	76 04 42.45	49.63	.153	.339 5617	2292	76 45 04.44	47.27
.104	328 0601	2404	76 05 32.06	49.58	.154	.339 7908	2290	76 45 51.69	47.23
. 105	1.328 3003	2401	76 06 21.61	49.53	2.155	1.340 0197	2287	76 46 38.89	47.18
. 106	.328 5403	2399	76 07 11.11	49.48	. 156	340 2483	2285	76 47 26.05	47.13
107	.328 7801	2397	76 08 00.57	49.43	.157	.340 4767	2283	76 47 26.05 76 48 13.16	47.09
			76 08 49.98				2281	76 49 00.23	47.04
.108	.329 0197 .329 2590	2394 2392	76 09 39.34	49·39 49·34	.158	.340 7049	2278	76 49 47.25	47.00
			76 10 28.66		433				
.110	1.329 4980 .329 7369	2390 2387	76 II 17.92	49.29 49.24	2.160 .161	1.341 1605 .341 3881	22 <b>7</b> 6 2274	76 50 34.22 76 51 21.15	46.95 46.90
		2385							46.86
.II2	.329 9755		76 12 07.14	49.19	.162	.341 6153	2272	76 52 08.03	
.113	.330 2139	2383	76 12 56.31	49.15	.163	.341 8424	2270		46.81
.114	.330 4520	2380	76 13 45.43	49.10	.164	.342 0693	2267	76 53 41.66	46.77
.115	1,330 6900	2378	76 14 34.51	49.05	2.165	1.342 2959	2265	76 54 28.40	46.72
.116	.330 9277	2376	76 15 23.54	49.00	.166	342 5223	2263	76 55 15.10	46.68
.117	.331 1651	2373	76 16 12.52	48.96	.167	342 7485	2261	76 56 o1.76	46.63
.118	.331 4023	2371	76 17 01.45	48.91	. 168	.342 9744	2259	76 56 48.36	46.59
.119	.331 6393	2369	76 17 50.33	48.86	.169	.343 2002	2256	76 57 34.93	46.54
. 120	1.331 8761	2367	76 18 39.17	48.81	2.170	1.343 4257	2254	76 58 21.45	46.50
.121	.332 1127	2364	76 19 27.96	48.77	.171	.343 6510	2252	76 59 07.92	46.45
.122	.332 3490	2362	76 20 16.70	48.72	172	.343 8761	2250	76 59 54.35	46.41
.123	.332 5850	2360	76 21 05.40	48.67	173	.344 1010	2248	77 00 40.73	46.36
.124	.332 8209	2357	76 21 54.04	48.62	174	.344 3256	2245	77 01 27.07	46.31
المعن		anan data ar	76 22 42.64	48 58	2.175	T 2//4 FFOT	2243	77 02 13.36	46.27
.125 .126	1.333 0565 .333 2919	2355 2353	76 23 31.20	48.53	.176	1.344 5501 •344 7743	2241		46.22
		2350	76 24 19.70	48.48	.177	344 9983	2239		46.18
127	.333 5271				17/				46.13
.128	.333 7620	2348	76 25 08.16	48.44	.178	.345 2220	2237	77 04 31.96	
.129	•333 9967	2346	76 25 56.57	48.39	.179	•345 4456	2234	77 05 18.08	46.09
130	1.334 2312	2344	76 26 44.94	48.34	2.180	1.345 6689	2232	77 06 04.14	46 <b>.0</b> 4
.131	.334 4654	2341	76 27 33.26	48.29	.181	.345 8921	2230	77 06 50.17	46.00
.132	.334 6995	2339	70 28 21.53	48.25	.182	.346 1150	2228	77 07 36.14	45.95
.133	•334 9333	2337	76 29 09.75	48.20	. 183	.346 3377	2226	77 08 22.08	45.91
.134	335 1668	2335	76 29 57.93	48.15	. 184	.346 5601	2224	77 09 07.96	45.87
2.135	1.335 4002	2332	76 30 46.06	48.11	2.185	1.346 7824	2221	77 09 53.81	45.82
.136	335 6333	2330	76 31 34.14	48.06	.186	.347 0044	2219		45.78
.137	.335 8662	2328	76 32 22.18	48.01	.187	347 2262	2217	77 11 25.36	45.73
.138	.336 0988	2325	75 33 10.17	47.97	.188	.347 4478	2215	77 12 11.07	45.69
.139	.336 3313	2323	76 33 58.11	47.92	.189	.347 6692	2213	77 12 56.73	45.64
. 140	1.336 5635	2321	<i>7</i> 6 34 46.01	47.87	2.190	1.347 8904	2211	77 13 42.35	45.60
- 23		2319	76 35 33.86	47.83	.191	.348 1114	2208	77 14 27.93	45.55
.141	.336 7955								
.142	.337 0272	2316	76 36 21.66	47.78	.192	.348 3321	2206	77 15 13.46	45.51
·143	.337 2588 .337 4901	2314 2312	76 37 09.42 76 37 57.13	47.73 47.69	. 193 . 194	.348 5526 .348 7729		77 15 58.95 77 16 44.39	45.46 45.42
	1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1/4/					14.00	Line of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	
145	1.337 7212		76 38 44.79	47.64		0. 220	2200		45.38
. 146	.337 9520 .338 1826		76 39 32.41	47 • 59	.196	.349 2129	2198	77 18 15.14	45.33
.147	.338 1826	2305	76 40 19.98	47 - 55		.349 4326	2196		45.29
. 148	.338 4131	2303	76 41 07.51	47.50	. 198	.349 6520	2193	77 19 45.72	45.24
. 149	.338 6432	2301	76 41 54.99	47.46	. 199	.349 8713		77 20 30.94	45.20
.150	1.338 8732	2298	76 42 42.42	47.41	2.200	1.350 0903	2189	77 21 16.11	45.16
u	2 tan <sup>-1</sup> (e <sup>u</sup> )-π/2	∞ sech u	2 tan-1(eu)-90°	∞ sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan-1(eu)-90°	ω sech u

u ,	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> /	u	gd u	ω <b>F</b> <sub>0</sub> ′	gđ u	ω <b>F</b> <sub>0</sub> ′
2.200	1.350 0903	2189	77 21 16.11	<b>45.</b> 16	2.250	1.360 7733	2085	77 57 59.64	43.00
.201	.350 3091	2187	77 22 01.25	45.11	.251	360 9817	2083	77 58 42.62	42.96
.202	.350 5277	2185 2183	77 22 46.34	45.07 45.02	.252	.361 1899	2081 2079	77 59 25.56 78 00 08.46	42.92 42.88
.204	.350 9643	2181	77 24 16.38	44.98	.254	361 6056	2077	78 00 51.32	42.83
2.205	1.351 1822	2179	77 25 01.34	44.94	2.255	1.361 8132	2075	78 01 34.13	42.79
.205	.351 4000	2176 2174	77 25 46.25 77 26 31.12	44.89 44.85	.256 .257	.362 0205	2073 2071	78 02 16.90 78 02 59.63	42.75 42.71
208	351 8348	2172	77 27 15.95	44.80	.258	.362 4347	2069	78 03 42 32	42.67
. <i>2</i> 09	.352 0519	2170	77 28 00.73	44. <i>7</i> 6	.259	.362 6414	2067	78 04 24.97	42.63
2.210	1.352 2688	2168	77 28 45.47	44.72	2.260	1.362 8480	2065	78 05 07.57	42.58
.2ĬI .2Ĭ2	.352 4855	2166 2164	77 29 30.16 77 30 14.82	44.67 44.63	.261 .262	.363 0543 .363 2605	2063 2060	78 05 50.13 78 06 32.66	42.54 42.50
.213	.352 7020	2162		44.59	.263	.363 4664	2058	78 07 15.14	42.46
.214	353 1343	2159	77 31 43.99	44.54	.264	.363 6722	2056	78 07 57 57	42.42
2.215	1.353 3502	2157	77 32 28.51	44.50	2.265	1.363 8777	2054	78 08 39.97	42.38
.216	.353 5658 .353 7812	2155 2153	77 33 12.99 77 33 57.42	44.46 44.41	.266 .267	.364 0831 .364 2882	2052 2050	78 09 22.33 78 10 04.64	42.33
.218	353 9964	2151	77 34 41.81	44.37	.268	.364 4931	2048	78 10 46.91	42.25
.219	.354 2114	2149	77 35 26.16	44.33	.269	.364 6979	2046	78 11 29.14	42.21
2.220	1.354 4262	2147	77 36 10.46	44.28	2.270	1.364 9024	2044 2042	78 12 11.33 78 12 53.48	42.17 42.13
.221	.354 6408 .354 8552	2I45 2I43	77 36 54.72 77 37 38.94	44.24 44.20	.271	.365 3109	2042	78 13 35.59	42.00
.223	355 0693	2141	77 38 23.11	44.15	.273	.365 5149	2038	78 14 17.66	42.05
.224	.355 2833	2138	77 39 07.24	44.11	.274	.365 7186	2036	78 14 59.68	42.00
2.225	1.355 4970	2136	77 39 51 33	44.07	2.275 .276	1.365 9221 .366 1255	2034 2032	78 15 41.66 78 16 23.61	41.96 41.92
.226	.355 7106 .355 9239	2134 2132	77 40 35 38	44.02	.277	366 3286	2032	78 17 05.51	41.88
.228	.356 1370	2130	77 42 03.34	43.94	.278	.366 5316	2028	78 17 47.37	41.84
.229	356 3499	2128	77 42 47.25	43.89	.279	.366 7343	2026	78 18 29.19	41.80
2.230 .23I	1.356 5626 .356 7751	2126 2124	77 43 31 13 77 44 14 96	43.85	2.280 .281	1.366 9369	2024 2023	78 19 10.97 78 19 52.71	41.76
.232	356 9874	2124	77 44 58.74	43.77	282	367 3414	2021	78 20 34.40	41.68
.233	.357 2095	2120	77 45 42.49	43.72	.283	.367 5433	2019	78 21 16.06	41.64
.234	•357 4114	2118	77 46 26.19	43.68	.284	367 7451	2017	78 21 57.68	41.60
2.235	1.357 6230	2116	77 47 09.85	43.64	2,285 .286	1.367 9466	2015	78 22 39.25 78 23 20.78	41.55
.236	357 8345 358 0457	2114	77 47 53.47 77 48 37.04	43.60	.287	.368 3492	2013		41.51
.238	358 2568	2109	77 49 20.57	43.51	.288	.368 5501	2009		41.43
.239	.358 4676	2107	77 50 04.06	43.47	.289	.368 7509	2007	78 25 25.14	41.39
2.240	1.358 6783	2105		43.43	2.290	368 9515	2005		41.35
.241	.358 8887	2103 2101	77 51 30.91	43.38	.291 .292	.369 1519 .369 3521	2003 2001	78 26 47.85 78 27 29.14	41.31
.243	.359 3089	2099	77 52 57.59	43.30	.293	.369 5520	1999	78 28 10.39	41.23
.244	.359 5187	2097	77 53 40.87	43.26	<b>.2</b> 94	.369 7518	1997	78 28 51.60	41.19
2.245 .246	1.359 7283 .359 9377	2095 2093	77 54 24.10 77 55 07.29	43.2I 43.17	2.295 .296	1.369 9514 .370 1508	1995 1993	78 29 32.77 78 30 13.89	41.15 41.11
.247	360 1469	2093	77 55 50.44	43.17	.297	370 3500	1991	78 30 54.98	41.07
.248	.360 3559	2089	77 56 33.55	43.09	.298	.370 5490	1989	78 31 36.03	41.03
.249	.360 5647	2087	77 57 16.62	43.04	.299	370 7479	1987	78 32 17.04	40.99
2.250	1.360 7733	2085	77 57 59.64	43.00	2.300	1.370 9465	1985	78 32 58.01	40.95
u	$2 \tan^{-1}(e^u) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	∞ sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞sechu	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u

The Gudermannian.

u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u 🎠	gďu	ω <b>F</b> <sub>0</sub> /	gd u	ωF <sub>0</sub> ′
2.300 .301 .302 .303 .304	1.370 9465 .371 1449 .371 3431 .371 5412 .371 7390	1985 1983 1981 1979 1977	78 32 58.01 78 33 38.94 78 34 19.82 78 35 00.67 78 35 41.48	40.95 40.91 40.87 40.83 40.79	2.350 .351 .352 .353 .354	1.380 6331 .380 8221 .381 0108 .381 1994 .381 3877	1890 1888 1886 1885 1883	79 06 16.03 79 06 55.00 79 07 33.93 79 08 12.82 79 08 51.67	38.9 38.9 38.9 38.8 38.8
2.305 .306 .307 .308 .309	1.371 9367 .372 1341 .372 3314 .372 5284 .372 7253	1975 1974 1972 1970 1968	78 36 22.25 78 37 02.98 78 37 43.66 78 38 24.31 78 39 04.92	40.75 40.71 40.66 40.63 40.59	2.355 .356 .357 .358 .359	1.381 5759 .381 7639 .381 9517 .382 1394 .382 3268	1881 1879 1877 1875 1874	79 09 30.49 79 10 09.27 <b>79 10 48.01</b> 79 11 26.71 <b>79 12 05.37</b>	38.8 38.7 38.7 38.0 38.6
2.310 .311 .312 .313 .314	1.372 9220 .373 1185 .373 3148 .373 5109 .373 7068	1966 1964 1962 1960 1958	78 39 45.49 78 40 26.02 78 41 06.51 78 41 46.96 78 42 27.37	40.55 40.51 40.47 40.43 40.39	2.360 .361 .362 .363 .364	1,382 5141 ,382 7012 ,382 8881 ,383 0748 ,383 2613	1872 1870 1868 1866 1864	79 12 44.00 79 13 22.59 79 14 01.14 79 14 39.65 79 15 18.12	38.6 38.5 38.5 38.4 38.4
2.315 .316 .317 .318 .319	1.373 9025 .374 0980 .374 2934 .374 4885 .374 6835	1956 1954 1952 1950 1949	78 43 07.74 78 43 48.07 78 44 28.36 78 45 08.61 78 45 48.82	40.35 40.31 40.27 40.23 40.19	2.365 .366 .367 .368 .369	1.383 4476 .383 6338 .383 8198 .384 0056 .384 1912	1863 1861 1859 1857 1855	79 15 56.56 79 16 34.96 79 17 13.32 79 17 51.64 79 18 29.93	38.4 38.3 38.3 38.3 38.2
2.320 .321 .322 .323 .324	1.374 8782 .375 0728 .375 2672 .375 4614 .375 6554	1947 1945 1943 1941 1939	78 46 28.99 78 47 09.13 78 47 49.22 78 48 29.28 78 49 09.29	40.15 40.11 40.07 40.04 40.00	2.370 .371 .372 .373 .374	1.384 3766 .384 5619 .384 7470 .384 9318 .385 1165	1853 1852 1850 1848 1846	79 19 08.18 79 19 46.39 79 20 24.56 79 21 02.70 79 21 40.80	38.1 38.1 38.1 38.1
2.325 .326 .327 .328 .329	1.375 8492 .376 0428 .376 2362 .376 4295 .376 6225	1937 1935 1933 1931 1930	78 49 49.27 78 50 29.21 78 51 09.10 78 51 48.96 78 52 28.78	39.96 39.92 39.88 <b>39.</b> 84 39.80	2.375 .376 .377 .378 .379	1.385 3011 .385 4854 .385 6696 .385 8536 .386 0374	1844 1843 1841 1839 1837	79 22 18.86 70 22 56.88 70 23 34.87 70 24 12.81 70 24 50.73	38.0 38.0 37.9 37.9 37.8
2.330 .331 .332 .333 .334	1.376 8154 .377 0081 .377 2006 .377 3929 .377 5850	1928 1926 1924 1922 1920	78 53 08.56 78 53 48.30 78 54 28.01 78 55 07.67 78 55 47.29	39.76 39.72 39.68 <b>39.64</b> 39.61	2.380 .381 .382 .383 .384	1.386 2210 .386 4044 .386 5877 .386 7708 .386 9537	1835 1833 1832 1830 1828	79 25 28.60 79 26 06.44 79 26 44.24 79 27 22.00 79 27 59.73	37.8 37.8 37.7 37.7
2.335 .336 .337 .338 .339	1.377 7769 .377 9686 .378 1601 .378 3515 .378 5427	1918 1916 1914 1913 1911	<b>78</b> 56 26.88 78 57 06.43 78 57 45.94 78 58 25.40 78 59 04.84	39.57 39.53 39.49 39.45 39.41	2.385 .386 .387 .388 .389	1.387 1364 .387 3189 .387 5013 .387 6834 .387 8655	1826 1824 1823 1821 1819		37.6 37.6 37.5 37.5
2.340 .341 .342 .343 .344	1.378 7336 .378 9244 .379 1150 .379 3054 .379 4957	1909 1907 1905 1903 1901		39·37 39·33 39·30 39·26 39·22	2.390 .391 .392 .393 .394	1.388 0473 .388 2289 .388 4104 .388 5917 .388 7728	1817 1816 1814 1812 1810	79 33 00.20 79 33 37.59	37.4 37.4 37.4 37.3 37.3
2.345 .346 .347 .348 .349	1.379 6857 .379 8756 .380 0652 .380 2547 .380 4440	1899 1898 1896 1894 1892	79 03 00.61 79 03 39.77 79 04 18.89 79 04 57.97 79 05 37.02	39.18 39.14 39.10 39.06 39.03	2.395 .396 .397 .398 .399	1.388 9537 .389 1345 .389 3150 .389 4954 .389 6757	1808 1807 1805 1803 1801	70 35 20.55	37.3 37.2 37.2 37.1 37.1
2.350	1.380 6331	1890	79 06 16.03	38.99		1.389 8557	1800	79 37 58.32	37.1
u.	$2 \tan^{-1}(e^u) - \frac{\pi}{2}$	ωs ch u	2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	ω sech u	u	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	∞ sech u	2 tan <sup></sup> (e <sup>u</sup> )90°	ω sech

u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
2.400 .401 .402 .403 .404	1.389 8557 .390 0356 .390 2153 .390 3948 .390 5741	1800 1798 1796 1794 1792	79 39 12.48	37.12 37.08 37.05 37.01 36.97	2.450 .451 .452 .453 .454	1.398 6356 .398 8069 .398 9779 .399 1488 .399 3195	1711 1710	80 09 19.91 80 09 55.16	35.3 35.3 35.2 35.2
2.405 .406 .407 .408 .409	1.390 7533 .390 9323 .391 1111 .391 2897 .391 4681	1791 1789 1787 1785 1784	79 41 40.37 79 42 17.25	36.94 36.90 36.86 36.83 36.79	2.455 .456 .457 .458 .459	1,399 4901 ,399 6605 ,399 8307 ,400 0007 ,400 1706	1705 1703 1701 1700 1698		35.10 35.00 35.00 35.00
2.410 .411 .412 .413 .414	1.391 6464 .391 8245 .392 0025 .392 1802 .392 3578	1782 1780 1 <b>77</b> 8 1777 1775	79 44 07.68 79 44 44.42 79 45 21.12 79 45 57.78 79 46 34.41	36.75 36.72 36.68 36.65 36.61	2.460 .461 .462 .463 .464	1.400 3403 .400 5099 .400 6793 .400 8485 .401 0175		80 14 00.93 80 14 35.90 80 15 10.84 80 15 45.74 80 16 20.61	34.99 34.93 34.89 34.89
2.415 .416 .417 .418 .419	1.392 5352 .392 7124 .392 8895 .393 0664 .393 2431	1773 1771 1770 1768 1766	79 47 47 56 79 48 24 08	36.57 36.54 36.50 36.47 36.43	2.465 .466 .467 .468 .469	1.401 1864 .401 3551 .401 5237 .401 6921 .401 8603	1688 1686 1685 1683 1681	80 18 05.01	34.82 34.75 34.75 34.75 34.68
2.420 .421 .422 .423 .424	1.393 4196 .393 5960 .393 7722 .393 9482 .394 1240	1764 1763 1761 1759 1758	79 50 49.80	36.39 36.36 36.32 36.29 36.25	2.470 .471 .472 .473 .474	1.402 0283 .402 1962 .402 3639 .402 5315 .402 6989	1680 1678 1676 1675 1673	80 19 49.10 80 20 23.73 80 20 58.33 80 21 32.89 80 22 07.41	34.65 34.56 34.56 34.56 34.56
2.425 .426 .427 .428 .429	1.394 2997 .394 4752 .394 6505 .394 8257 .395 0006	1756 1754 1752 1 <b>751</b> 1749	79 53 51.15 79 54 27.32	36.22 36.18 36.14 36.11 36.07	2.475 .476 .477 .478 .479	1.402 8661 .403 0332 .403 2001 .403 3668 .403 5334	1670 1668		34 · 44 34 · 44 34 · 4 34 · 32
2.430 .431 .432 .433 .434	1.395 1754 .395 3501 .395 5245 .395 6988 .395 8729	1747 1745 1744 1742 1740	79 56 51.61	36.04 36.00 35.97 35.93 35.90	2.480 .481 .482 .483 .484	1.403 6998 .403 8660 .404 0321 .404 1980 .404 3637	1662	80 25 33.86 80 26 08.15 80 26 42.40 80 27 16.62 80 27 50.81	34.24 34.24 34.24 34.24 34.17
2.435 .436 .437 .438 .439	.396 2207 .396 3943 .396 5677		79 59 51.19	35.86 35.83 35.79 35.76 35.72	2.485 .486 .487 .488 .489	1.404 5293 .404 6947 .404 8600 .405 0251 .405 1900	1653 1652 1650	80 28 24.97 80 28 59.09 80 29 33.17 80 30 07.23 80 30 41.25	34.10 34.00 34.00 34.00
2.440 .441 .442 .443 .444	1.396 9141 .397 0870 .397 2597 .397 4323 .397 6047	1730 1728 1727 1725 1723	80 02 49.88 80 03 25.51 80 04 01.11	35.69 35.65 35.62 35.58 35.54	2.490 .491 .492 .493 .494	1.405 3548 .405 5194 .405 6838 .405 8481 .406 0122	1645 1644 1642	80 31 15.23 80 31 49.19 80 32 23.10 80 32 56.99 80 33 30.84	33.92 33.92 33.82 33.82
2.445 .446 .447 .448	1.397 7770 .397 9490 .398 1209 .398 2927 .398 4642	1722 1720 1718 1716 1715	80 05 47.69 80 06 23.15 80 06 58.57	35.51 35.48 35.44 35.41 35.37	2.495 .496 .497 .498 .499	1.406 1762 .406 3400 .406 5036 .406 6671 .406 8304	1639 1637 1636 1634 1632	80 35 45.92	33.80 33.72 33.72 33.70 33.62

*,			Th	e Gude	rmanni	an.			
u	gđ u	ωF <sub>0</sub> ′	gđ u	ωF <sub>0</sub> ′	u	gđ u	∞F₀′	gd u	ωF <sub>0</sub> ′
2.500	1.406 0036	1631	80 36 53.26	3 <b>3.</b> 64	2.550	1.414 9492	1552	81 04 14.22	32.02
.501	.407 1566	1629	80 37 26.88	33.60	.551	.415 1043	1551	81 04 46.22	31.98
.502	.407 3194	1627	80 38 00.46	33.57	.552	.415 2593		81 05 18.19	31.95
.503	.407 4821	1626		33.54	• 553	.415 4142	1548	81 05 50.13	31.92
.504	.407 6446	1624	80 39 07.54	33.50	•554	.415 5688	1546	81 06 22.03	31.89
2.505	1.407 8069	1623	80 39 41.02	33 - 47	2.555	1.415 7234	1545	81 06 53.91	31.86
506	.407 9691		80 40 14.47	33.44	.556	.415 8778	1543	81 07 25.75	31.83
.507	.408 1311	1619		33.40	.557	.416 0320		81 07 57.56	31.80
.508	.408 2930	1618		33.37	.558	.416 1860	1540	81 08 29.34	31.76
.509	.408 4547	1616	80 41 54.64	33 • 34	.559	.416 3400	1538	81 09 01.09	31.73
	- 400 6160	-6	80 40 07 06	20 27	2.560	1.416 4937	TEAR	81 09 32.80	31.70
2.510	1.408 6163 .408 7777	1615	80 42 27.96 80 43 01.25	33.31 33.27	.561	.416 6473	1537 1535	81 10 04.49	31.67
.511	.408 9389		80 43 34.51	33.24	.562	.416 8008	1534	81 10 36.14	31.64
513	.409 1000	1610		33.21	.563	.416 9541	1532	81 11 07.77	31.61
.514	.409 2609		80 44 40.92	33.17	. 564	.417 1073	1531	81 11 39.36	31.58
								1 - 1 - 2 - 2 - 1 - 1 - 1 - 1 - 1 - 1 -	الماستان
2.515	1.409 4216	1607		33.14	2.565	1.417 2603	1529	81 12 10.92 81 12 42.45	31.54
.516	.409 5822 .409 7427	1605	80 46 20.30	33.11	. 566 . 567	.417 4131 .417 5659	1526	81 13 13.95	31.51
.517	.409 9029	1602		33.04	568	.417 7184	1525	81 13 45.41	31.45
.519	.410 0631		80 47 26.38	33.01	.569	417 8708	1523	81 14 16.85	31.42
- 1							and the state of		
2.520	1.410 2230	1599	80 47 59.38	32.98	2.570	1.418 0231	1522	81 14 48.25	31.39
.521	.410 3828	1597	80 48 32.34	32.95	.571	.418 1752		81 15 19.63 81 15 50.97	31.36
.522	.410 5425 .410 7020	1596 1594	80 49 05.27 80 49 38.17	32.91 32.88	.572 .573	.418 3271 .418 4789		81 16 22.28	31.33 31.30
· 523 · 524	.410 8613	1593		32.85	.574	.418 6306		81 16 53.56	31.27
- 3	1410 0010	-590	35 35.00		3,4			30.0-	The Wife
2.525	1.411 0205	1591	80 50 43.86	32.82	2.575	1.418 7821	1514	81 17 24.81	31.23
.526	.411 1795	1589	80 51 16.66	32.78	.576	.418 9334		81 17 56.03	31.20
-527	.411 3384	1588	80 51 49.43	32.75	577	.419 0847		81 18 27.22 81 18 58.38	31.17
.528	.411 4971 .411 6556	1586 1585		32.72 32.69	. 578 579	.419 2357 .419 3866	1510	81 19 29.50	31.14
. 529	.411 0550	.303	00 32 34.07		.379	14.9 3000	-300	1 2 29:30	
2.530	1.411 8140	1583		32.65	2.580	1.419 5374	1507	81 20 00.60	31.08
.531	.411 9722	1582		32.62	.581	.419 6880	1505	81 20 31.67	31.05
•532	.412 1303	1580		32.59	.582	.419 8384			31.02
•533	.412 2882		80 55 05.36	32.56	.583	.419 9888 .420 1389	1502 1501	81 21 33.70 81 22 04.68	30.99
•534	.412 4460	1577	80 55 37.90	32.53	.584	.420 1309	1501	01 22 04.00	30.96
2.535	1.412 6036	1575	80 56 10.41	32.49	2.585	1.420 2889	1499	81 22 35.62	30.93
.536	.412 7611	1574	80 56 42.89	32.46	.586	.420 4388	1498		30.90
•537	.412 9184	1572		32.43	.587	.420 5885		81 23 37.41	30.87
.538	.413 0755	1571	80 57 47.75	32.40	588	.420 7381	1495	81 24 08.26	30.84
•539	.413 2325	1569	80 58 20.13	32.37	.589	.420 8875	1493	81 24 39.09	30.81
2.540	1.413 3893	1568	80 58 52.48	32.33	2.590	1.421 0368	1492	81 25 09.88	30.77
.541	.413 5460	1566	80 59 24.80	32.30	.591	.421 1859	1491	81 25 40.63	30.74
.542	.413 7025	1564	80 59 57.08	32.27	.592	.421 3349	1480	81 26 11.36	30.71
•543	.413 8589	1503	81 00 29.34	32.24	•593	421 4837		81 26 42.06	30.68
•544	.414 0151	1501	81 01 01.56	32.21	• 594	.421 6324	1480	81 27 12.73	30.65
2.545	1.414 1712	1560	81 01 33.75	32.17	2.595	1.421 7809	1485	81 27 43.37	30.62
.546	.414 3271	1558	81 02 05.91	32.14	. 596	.421 9293	1483	81 28 13.98	30.59
.547	.414 4829	1557	81 02 38.03	32.11	.597	.422 0776		81 28 44.55	30.56
548	.414 6385	1555	81 03 10.13	32.08	.598	.422 2257		81 29 15.10	30.53
•549	.414 7939	1554	81 03 42.19	32.05	.599	.422 3736	1479	81 29 45.62	30.50
2.550	1.414 9492	1552	81 04 14.22	32.02	2.600	1.422 5214	1477	81 30 16.11	30.47
	$2 \tan^{-1}(e^{u}) - \frac{\pi}{2}$	m coch u	2 tan-1(eu)-90°	ei each a		$2 \tan^{-1}(e^u) - \frac{\pi}{2}$	w each u	2 tan-1(eu)-90°	

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u .	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′	u	gđ u	∞F <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′
2.600 .601 .602 .603 .604	1.422 5214 .422 6691 .422 8166 .422 9640 .423 1112	1477 1476 1474 1473 1471	81 30 16.11 81 30 46.56 81 31 16.99 81 31 47.39 81 32 17.75	30.47 30.44 30.41 30.38 30.35	2.650 .651 .652 .653 .654	1.429 7283 .429 8688 .430 0092 .430 1495 .430 2896	1406 1405 1403 1402 1400	~ 0	29.00 28.97 28.94 28.92 28.89
2.605 .606 .607 .608 .609	1.423 2583 .423 4052 .423 5520 .423 6986 .423 8451	1470 1469 1467 1466 1464	81 32 48.09 81 33 18.40 81 33 48.67 81 34 18.92 81 34 49.14	30.32 30.29 30.26 30.23 30.20	2.655 .656 .657 .658 .659	1.430 4296 .430 5694 .430 7091 .430 8487 .430 9881	1399 1398 1396 1395 1394	81 57 56.12 81 58 24.94 81 58 53.72	28.86 28.83 28.80 28.77 28.74
2.610 .611 .612 .613 .614	1.423 9915 .424 1377 .424 2837 .424 4297 .424 5754	1463 1461 1460 1458 1457	81 35 19.32 81 35 49.48 81 36 19.61 81 36 49.71 81 37 19.77	30.17 30.14 30.11 30.08 30.05	2.660 .661 .662 .663 .664	1.431 1274 .431 2665 .431 4055 .431 5444 .431 6831	1392 1391 1389 1388 1387	82 00 19.91 82 00 48.58	28.72 28.69 28.66 28.63 28.60
2.615 .616 .617 .618 .619	1.424 7211 .424 8665 .425 0119 .425 1571 .425 3021	1456 1454 1453 1451 1450	81 37 49.81 81 38,19.82 81 38 49.80 81 39 19.75 81 39 49.67	30.02 29.99 29.96 29.93 29.90	2.665 .666 .667 .668 .669	1.431 8217 .431 9602 .432 0985 .432 2367 .432 3747	1385 1384 1383 1381 1380	82 03 11.52 82 03 40.02	28.57 28.55 28.52 28.49 28.46
2.620 .621 .622 .623 .624	1.425 4470 .425 5918 .425 7364 .425 8809 .426 0252	1448 1447 1446 1444 1443	81 40 19.56 81 40 49.42 81 41 19.25 81 41 49.05 81 42 18.82	29.87 29.85 29.82 29.79 29.76	2.670 .671 .672 .673 .674	1.432 5127 .432 6504 .432 7881 .432 9256 .433 0629	1378 1377 1376 1374 1373	10 2	28.43 28.40 28.38 28.35 28.32
2.625 .626 .627 .628 .629	1.426 1694 .426 3135 .426 4574 .426 6012 .426 7448	1441 1440 1438 1437 1436	81 42 48.56 81 43 18.28 81 43 47.96 81 44 17.61 81 44 47.24	29.73 29.70 29.67 29.64 29.61	2.675 .676 .677 .678 .679	1.433 2002 -433 3373 -433 4742 -433 6110 -433 7477	1372 1370 1369 1368 1366	82 07 27.03	28.29 28.26 28.24 28.21 28.18
2.630 .631 .632 .633 .634	1.426 8883 .427 0316 .427 1748 .427 3179 .427 4608	1430	81 45 16.83 81 45 46.40 81 46 15.94 81 46 45.44 81 47 14.92	29.58 29.55 29.52 29.49 29.46	2.680 .681 .682 .683 .684	1.433 8843 .434 0207 .434 1570 .434 2931 .434 4291	1365 1363 1362 1361 1359		28.15 28.12 28.10 28.07 28.04
2.635 .636 .637 .638 .639	1.427 6036 .427 7462 .427 8887 .428 0310 .428 1732	1423	81 47 44.37 81 48 13.79 81 48 43.18 81 49 12.55 81 49 41.88	29.43 29.41 29.38 29.35 29.32	2.685 .686 .687 .688 .689	1.434 5650 .434 7008 .434 8364 .434 9719 .435 1072	1358 1357 1355 1354 1353	82 12 08.28	28.01 27.99 27.96 27.93 27.90
2.640 .641 .642 .643 .644	1.428 3153 .428 4572 .428 5990 .428 7407 .428 8822	1419 1417 1416 1414	81 50 11.18 81 50 40.46 81 51 09.70 81 51 38.92 81 52 08.11	29.29 29.26 29.23 29.20 29.17	2.690 .691 .692 .693 .694	1.435 2424 .435 3775 .435 5124 .435 6472 .435 7819	1349 1347 1346	82 14 27.86 82 14 55.69 82 15 23.49 82 15 51.27	27.87 27.85 27.82 27.79 27.77
2.645 .646 .647 .648 .649	1.429 0236 .429 1648 .429 3059 .429 4468 .429 5876	1412 1410 1409 1407	81 52 37.27 81 53 06.40 81 53 35.50 81 54 04.57 81 54 33.62	29.14 29.12 29.09 29.06 29.03	2.695 .696 .697 .698 .699	.436 0508 .436 1851 .436 3192 .436 4532	1343 1342 1341 1339	82 17 14.44 82 17 42.11 82 18 09.75	27.74 27.71 27.68 27.65 27.63
2.650 u	$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		81 55 02.63 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.		$\begin{array}{ c c c c c c c c c c c c c c c c c c c$		82 18 37.36 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	27.60 ω sech u

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u	gđ u	ωF <sub>0</sub> ′	gd ú	ωF <sub>0</sub> /	u.	gd u	ω <b>F</b> <sub>0</sub> ′	gđu	ωF <sub>0</sub> ′
2.700	1.436 5871	1338	82° 18° 37° 36	27.60	2.750	1.443 1144	1273	82 41 03.70	26.26
.701	.436 7209	1337	82 19 04.95	27.57	.751	.443 2416	1272	82 41 29.95	26.24
.702	.436 8545	1335	82 19 32.51	27.54	.752	.443 3688	1271	82 41 56.18	26.21
.703	.436 9879	1334	82 20 00.04	27.52	•753	•443 4958		82 42 22.38	26.19
.704	.437 1213	1333	82 20 27.54	27.49	•754	.443 6227	1268	82 42 48.55	26.16
2.705 .706	1.437 2545 .437 3876	1331	82 20 55.02 82 21 22.47	27.46 27.44	2.755 .756	1.443 7495 .443 8761	1267 1266	82 43 14.70 82 43 40.82	26.14 26.11
.707	.437 5205		82 21 49.89	27.41	757	.444 0026	1265	82 44 06.92	26.08
708	437 6533	1327	82 22 17.29	27.38	.758	444 1290	1263		26.06
.709	.437 7860	1326	82 22 44.66	27.35	•759	·444 2553	1262	82 44 59.03	26.03
2.710	1.437 9186		82 23 12.00	27.33	2.760	1.444 3814		82 45 25.05	26.01
.711	.438 0510		82 23 39.31	27.30	.761	•444 5074		82 45 51.04	25.98
712	.438 1833 .438 3154	1322	82 24 06.60 82 24 33.86	27.27 27.25	.762 .763	.444 6333 .444 7591		82 46 17.01 82 46 42.95	25.95 25.93
713 714	.438 4475		82 25 01.09	27.22	.764	.444 8847		82 47 08.87	25.90
2.715	1.438 5794	1318	82 25 28.29	27.19	2.765	1.445 0102	1255	82 47 34.76	25.88
.716	.438 7111	1317	82 25 55.47	27.17	.766	.445 1356	1253		25.85
.717	.438 8428		82 26 22.63	27.14	767	.445 2609		82 48 26.46	25.83
.718	.438 9743		82 26 49.75	27.11	.768	.445 3860		82 48 52.27	25.80
.719	.439 1057	1313	82 27 16.85	27.08	<b>,7</b> 69	.445 5111		82 49 18.06	25.77
2.720		1312	82 27 43.92	27.06	2.770			82 49 43.82	25.75
.721	.439 3680		82 28 10.96	27.03	.77I	-445 7607		82 50 09.56	25.72
.722	.439 4990	1309	82 28 37.98	27.00	.772	.445 8854 .446 0099		82 50 35.27 82 51 00.95	25.70
.723	.439 6299 .439 7606	1308	82 29 04.97 82 29 31.94	26.98 26.95	•773 •774	.446 1343	1243	82 51 26.61	25.67 25.65
.724									
2.725	1.439 8912	1305	82 29 58.87	26.92 26.90	2.775	1.446 2586 .446 3827	1242	82 51 52.25 82 52 17.86	25.62 25.60
.726	.440 0216 .440 1520	1304	82 30 25.79 82 30 52.67	26.87	•776 •777	.446 5068		82 52 43.44	25.57
.728	.440 2822		82 31 19.53	26.84	.778	.446 6307		82 53 09.00	25.55
.729	.440 4123		82 31 46.36	26.82	·779	.446 7545	1237	82 53 34.53	25.52
2.730	1.440 5422	1299	82 32 13.16	26.79	2.780	1.446 8781		82 54 00.04	25.49
.731	.440 6720	1298	82 32 39.94	26.76	.781	.447 0017		82 54 25.52	25.47
.732	.440 8017	1296		26.74	782	.447 1251	1234	82 54 50.98 82 55 16.41	25.44
-733	.440 9313 .441 0607	1295 1294	82 33 33.42 82 34 00.11	26.71 26.68	.783 .784	.447 2484 .447 3716		82 55 41.81	25.42 25.39
•734									
2.735	1.441 1900		82 34 26.78	26.66	2.785 .786	1.447 4946	1230	82 56 07.19 82 56 32.55	25.37
.736	.441 3192	1291	82 34 53.43 82 35 20.05	26.63 26.61	.787	447 6175	1229	82 56 57.88	25.34 25.32
.737 .738	.441 5772	1289		26.58	.788	.447 7403 .447 8630	1226	82 57 23.19	25.29
739	.441 7060	1287	82 36 13.21	26.55	.789	.447 9856	1225	82 57 48.47	25.27
2.740	1.441 8347	1286	82 36 39.75	26.53	2.790			82 58 13.72	25. <b>2</b> 4
.741	.441 9632		82 37 06.26	26.50	•791	.448 2303	1223	82 58 38.95	25.22
.742	.442 0916	1283	82 37 32.75	26.47	.792	•448 3525	1221	82 50 04.16	25.19
•743 • <b>7</b> 44	.442 2199 .442 3481	1281	82 37 59.21 82 38 25.64	26.45 26.42	•793 • <b>7</b> 94	.448 4746 .448 5966	1219	82 59 29.34 82 59 54.49	25.17 25.14
2.745	1.442 4761	1	82 38 52.05	26.40	2.795	1.448 7184		83 00 19.62	25.12
.746	.442 6040	1278	82 39 18.43	26.37	.796	.448 8401	1217	83 00 44.73	25.09
747	.442 7318	1277	82 39 44.79	26.34	797	.448 9617		83 01 09.81	25.07
.748	.442 8594	1276	82 40 11.12	26.32	. <i>7</i> 98	.449 0832	1214	83 01 34.86	25.04
•749	.442 9870	1275	82 40 37.42	26.29	•799	449 2045	1213	83 01 59.90	25.02
2.750	1.443 1144	1273	82 41 03.70	26.26	2.800	1.449 3258	1212	83 02 24.90	24.99
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u	gd u	ωF <sub>0</sub> ′	gd u	ωF <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gđ u	ωF <sub>0</sub> ′
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2.800	1.449 3258		83 02 24.90	24.99	2.850			83 22 44.07	23.78
.801 .802	.449 4469 .449 5679	1211		24.97	.851	•455 3517	1152	83 23 07.84	23.76
.803	.449 6888		83 03 14.84 83 03 39.77	24.94 24.92	.852 .853	.455 4668 .455 5819	1150	83 23 31.58	23.74 23.71
.804	.449 8095	1207	93 04 04.68	24.89	.854	.455 6968	1148		23.69
2.805	1.449 9301			24.87	2.855	1.455 8115	1147	83 24 42.69	23.67
.806	450 0507	1205	83 04 54.42	24.85	.856	.455 9262	11146		23.64
.807 .808	.450 1710 .450 2913		83 05 19.25 83 05 44.06	24.82 24.80	.857 .858	.456 0408 .456 1552	1145	83 25 29.97 83 25 53.58	23.62 23.59
.809	.450 4115	1201	83 06 08.84	24.77	.859	.456 2696	1143		23.57
2.810	1.450 5315	1200	83 06 33.60	24.75	2.860		1142		23.55
.811	.450 6514	1199	83 06 58.33	24.72	.861	.456 4979	1140	83 27 04.25	23.52
.812	450 7712		83 07 23.04	24.70	.862	.456 6119		83 27 27.77	23.50
.813 .814	.450 8909		83 07 47.73 83 08 12.39	24.67 24.65	.863 .864	.456 7258 .456 8395	1138		23.48 23.45
2.815	1.451 1200		83 08 37.03	24.62	2.865	1.456 9532	1136		23.43
.816	.451 2492		83 09 01.64	24.60	.866	.457 0667	1135	83 29 01.58	23.41
.817	.451 3684		83 09 26.23	24.58	.867	.457 1801	1134	83 29 24.98	23.38
.818	.451 4875	1190	83 09 50.79	24.55	.868	457 2935	1133	83 29 48.35	23.36
.819	.451 6065	1189	83 10 15.33	24.53	.869	.457 4067	1131	83 30 11.70	23.34
2.820	1.451 7253		83 10 39.84	24.50	2.870	1.457 5198	1130	83 30 35.03	23.32
.821 .822	.451 8441 .451 9627	1187	83 11 04.33 83 11 28.80	24.48 24.45	.871	.457 6327 .457 7456	1129	83 30 58.33 83 31 21.61	23.29
.823	.452 0812	1184	83 11 53.24	24.43	.873	.457 8584	1127	83 31 44.87	23.25
.824	.452 1995	1183	83 12 17.66	24.41	.874	.457 9710	1126	1 ~ ~	23.22
2.825	1.452 3178		83 12 42.05	24.38	2.875	1.458 0835	1125		23.20
.826	•452 4359	1181	83 13 06.42	24.36	.876	.458 1959	1124	83 32 54.50	23.18
.827 .828	.452 5540 .452 6719	1180	83 13 30.76 83 13 55.08	24.33 24.31	.877 .878	.458 3083		83 33 17.67 83 33 40.81	23.15 23.13
.829	.452 7897	1177	83 14 19.38	24.28	.879	.458 5325	1120	83 34 03.93	23.11
2.830	1.452 9073	1176	83 14 43.65	24.26	2.880	1.458 6445	1119	83 34 27.03	23.08
.831	.453 0249	1175	83 15 07.90	24.24	.881	.458 7564	1118	83 34 50.10	23.06
.832	.453 1423		83 15 32.12	24.21	.882	.458 8681		83 35 13.15	23.04
.833 .834	453 2597 453 3769	1173		24.19 24.16	.883 .884	.458 9798 .459 0913	1115	83 35 36.18 83 35 59.18	23.02
2.835	1.453 4940	1170	83 16 44.65	24.14	2.885	1.459 2027	1114	83 36 22.16	22.97
.836	.453 6109		83 17 08.78	24.12	.886	.459 3140	11:13	83 36 45.12	22.9
.837	.453 7278	1168	83 17 32.88	24.09	.887	.459 4252		83 37 08.06	22.92
.838	.453 8445	1167	83 17 56.96		.888	.459 5363	1110	83 37 30.97	22.90
.839	.453 9612	1166		24.04	.889	.459 6473	l	83 37 53.86	22.86
2.840	1.454 0777 .454 1941	1165	83 18 45.05 83 19 09.06	24.02 24.00	2.890 .891	1.459 7581	1108	83 38 16.73 83 38 39.57	22.80 22.83
.842	.454 3104		83 19 33.04	23.97	.892	·459 9795		83 39 02.40	22.81
.843	.454 4265	1161	83 19 57.01	23.95	.893	460 0901	1105	83 39 25.19	22.79
.844	.454 5426	1160	83 20 20.94	23.93	.894	.460 2005	1104	83 39 47.97	22.77
2.845	1.454 6585		83 20 44.86	23.90	2.895	1.460 3108		83 40 10.73	22.74
.846 .847	•454 7743		83 21 08.74	23.88	.896	460 4210	1101	83 40 33.46 83 40 56.17	22.72 22.70
.848	.454 8900 .455 0056		83 21 32.61	23.85 23.83	.897 .898	.460 5311 .460 6411	1000	83 41 18.85	22.68
.849	.455 1211		83 22 20.27	23.81	.899	.460 7510		83 41 41.52	22.65
2.850	1.455 2365	1153	83 22 44.07	23.78	2.900	1.460 8607	1097	83 42 04.16	22.63

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2.900 1.460 8607 1097 83 42 04.16 22.63 2.950 1.466 2123 1044 84 00 28.00 21. 9021 .460 9704 1096 83 42 90.37 22.59 1.952 .466 4209 1042 84 01 11.03 21. 903 .461 1894 1094 83 43 11.95 22.56 .953 .466 5251 1041 84 01 32.51 21. 904 .461 2087 1093 83 43 34.50 22.54 .954 .466 6291 1049 84 01 53.97 21. 909 .461 2087 1093 83 43 35.03 22.54 .954 .466 6291 1049 84 01 53.97 21. 900 .461 5171 1091 83 44 19.54 22.59 .956 .466 8368 1038 84 02 36.82 21. 900 .461 5171 1091 83 44 19.54 22.59 .956 .466 8368 1038 84 02 36.82 21. 900 .461 5171 1091 83 44 22.02 22.47 .957 .466 9406 1037 84 02 36.82 21. 900 .461 5181 1090 83 44 22.02 22.47 .957 .466 9406 1037 84 02 36.82 21. 900 .461 5280 1088 83 45 94.84 22.45 .958 .467 442 1036 84 03 19.55 21. 901 .461 9525 1086 83 45 49.34 22.45 .959 .467 1477 1035 84 03 40.93 21. 911 .462 0231 1085 83 44 61.73 22.36 .962 .467 4576 1038 84 04 22.72 21. 912 .462 1695 1084 83 43 63.11 22.36 .962 .467 4576 1038 84 04 02.27 21. 913 .462 7770 1083 83 46 54.64 22.34 .969 .367 467 5637 1039 84 02 57.37 21. 914 .462 3801 1082 83 47 18.79 22.32 .966 .467 8504 1037 84 05 05.23 21. 915 .462 6033 1080 83 48 03.38 22.27 .966 .467 8504 1037 84 05 05.23 21. 918 .468 180 1078 83 48 25.64 22.23 .969 .467 457 1038 84 00 44.86 21. 918 .468 180 1078 83 48 25.64 22.23 .969 .467 457 1038 84 00 44.86 21. 919 .462 7102 1079 83 48 25.64 22.24 .979 14.68 2801 1038 84 05 27.37 21. 92.920 1.463 0334 1076 83 49 54.47 22.16 .972 .468 8481 1038 84 05 65.21 21. 918 .468 180 1078 83 48 27.88 22.23 .969 .467 857 1038 84 00 13.29 21. 919 .462 7102 1079 83 48 25.64 22.25 .970 14.68 2801 102.88 40 63 25.2 21. 918 .468 180 1078 83 48 47.88 22.23 .969 .467 8570 1031 84 05 05.2 21. 919 .462 7102 1079 83 48 25.64 22.25 .970 14.68 2801 102.88 40 63 25.2 21. 918 .468 180 1078 83 48 49.88 22.23 .969 14.67 750 1038 84 00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00 10.00	:			Tl	ie Gude	rmann	ian.			
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900   4401 5171   1091 83 44 42-02   22-47   955   466 8368   1038 84 02 36.82   21. 907   461 6261   1090 83 44 42-02   22-47   955   466 9406   1037 84 02 36.82   21. 909   461 8438   1098 83 45 94-48   22-45   955   467 0442   1036 84 03 40-93   22. 909   461 8438   1087 83 45 20-92   22-43   959   467 1477   1035 84 03 40-93   22. 911   462 0610   1085 83 46 11.73   22.38   0.051   467 3544   1033 84 04 22.37   21. 912   462 1605   1085 83 46 11.73   22.38   0.052   467 4576   1032 84 04 23.57   21. 913   462 2790   1083 83 46 54.41   22.36   0.052   467 5607   1031 84 05 66.13   21. 913   462 2790   1083 83 46 56.46   22.34   9053   467 5607   1031 84 05 66.13   21. 913   462 4042   1081 83 47 18.79   22.30   2.965   1.467 5607   1031 84 05 27.37   21. 916   462 6023   1080 83 48 03.38   22.27   966   467 8694   1027 84 05 9.89   83 84 47.88   22.23   968   468 0747   1026 84 05 28.80   21. 910   462 9257   1077 83 49 10.10   22.21   969   468 0747   1028 84 05 52.14   21. 910   402 9257   1077 83 49 10.10   22.21   969   468 8772   1028 84 05 52.14   21. 922   463 483   1073 83 51 10.80   22.14   972   463 8841   1027 84 05 85.14   21. 922   463 483   1073 83 51 10.80   22.14   972   468 8811   1021 84 08 16.58   22. 14   972   463 843   1073 83 51 10.80   22. 12   973   468 8818   1022 84 07 55.50   21. 924   463 4627   1071 83 51 00.80   22. 10   974   468 8818   1019 84 08 58.67   21. 922   463 7636   1069 83 51 45.00   22.05   976   468 8018   1017 84 08 16.58   22. 10   974   468 8018   1017 84 08 16.58   22. 12. 973   463 8604   1064 83 53 54 40.9   22. 10   974   468 8018   1017 84 08 16.58   22. 22. 22. 22. 22. 22. 22. 22. 22. 2	.901 .902 .903	.460 9704 .461 0800 .461 1894	1096 1095 1094	83 42 04.16 83 42 26.78 83 42 49.37 83 43 11.95	22.63 22.61 22.59 22.56	.951 .952 .953	.466 3167 .466 4 <b>20</b> 9 .466 5251	1043 1042 1041	84 00 28.00 84 00 49.53 84 01 11.03 84 01 32.51	21.5 21.5 21.4 21.4 21.4
9.911462 6051 1084 .83 46 34.11 22.36961467 .856 1032 .84 04 .23.57 .21. 9.913462 2770 1083 .83 46 56.46 .22.34963467 .8560 1031 .84 05 .66.13 .21. 9.914462 .2861 1082 .83 47 18.79 .22.32964467 .8560 1031 .84 05 .66.13 .21. 9.915 .1.462 .4942 1081 .83 47 41.09 .22.32965467 .8560 1028 .84 05 .48.60 .21. 9.916462 .6023 1080 .83 48 03.08 .22.27966467 .8569 1028 .84 05 .48.60 .21. 9.917462 .7102 1079 .83 48 25.64 .22.25967467 .9721 1026 .84 06 .90.80 .21. 9.918462 .8180 1078 .83 48 47.88 .22.22 .3968468 .0747 1025 .84 06 .92.80 .21. 9.919462 .9257 1077 .83 49 10.10 .22.21969468 .1772 1024 .84 07 13.29 .21. 9.921463 .1499 1074 .83 49 54.47 .22.16971468 .8361 1022 .84 07 .85.20 .21. 9.923463 .2483 1076 .83 49 .85.47 .22.16 971 468 .8361 1022 .84 07 .85.20 .21. 9.923 463 .2483 1072 .83 50 .38.75 .22.12 973 468 .8361 1021 .84 08 16.58 .21. 9.924 463 .4627 1071 .83 51 00.86 .22.10 974 468 .8361 1029 .84 08 37.64 .21. 9.924 463 .4627 1071 .83 51 00.86 .22.10 974 468 .8361 1029 .84 08 37.64 .21. 9.925 463 .8604 1056 83 52 .07.05 22.05 975 468 .8918 1018 .84 09 10.68 .20.69 463 .8904 1068 .83 52 .07.05 22.05 976 468 .8918 1018 .84 09 10.66 22.07 22.05 975 468 .8918 1018 .84 09 10.66 22.07 22.05 975 468 .8918 1018 .84 09 1018 85.67 21. 9.924 463 .666 1036 83 52 92.00 92.00 463 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00 92.00	.906 .907 .908	.461 5171 .461 6261 .461 7350	1091 1090 1088	83 44 19.54 83 44 42.02 83 45 04.48	22.50 22.47 22.45	.956 .957 .958	.466 8368 .466 9406 .467 0442	1038 1037 1036	84 02 36.82 84 02 58.21 84 03 19.58	21.4 21.3 21.3 21.3
916   .462 6023   1088   83 48 03.38   22.27   .966   .467 8694   1027   83 6 09.80   21.	.911 .912 .913	.462 0610 .462 1695 .462 2779	1085 1084 1083	83 46 11.73 83 46 34.11 83 46 56.46	22.38 22.36 22.34	.961 .962 .963	.467 3544 .467 4576 .467 5607	1033 1032 1031	84 04 23.57 84 04 44.86 84 05 06.13	21.3 21.3 21.2 21.2 21.2
0.921   .463 1409   1074   83 49 54.47   22.16   .971   .468 3819   1022   84 07 55.50   21.0     0.922   .463 2483   1073   83 50 16.62   22.14   .972   .468 4841   1021   84 08 16.52   21.0     0.924   .463 4627   1071   83 51 00.86   22.10   .974   .468 6881   1019   84 08 37.64   21.0     0.925   .463 5698   1070   83 51 22.94   22.07   2.975   1.468 7900   1018   84 09 19.69   21.0     0.926   .463 6768   1069   83 51 45.00   22.05   .976   .468 8918   .1017   84 09 40.68   20.1     0.927   .463 8904   1067   83 52 29.07   22.01   .978   .468 9035   .1016   84 10 01.65   20.1     0.928   .463 8904   1067   83 52 29.07   22.01   .978   .469 0950   .1018   84 10 22.60   20.0     0.929   .463 9970   1066   83 53 13.04   21.97   2.980   .469 1965   .1014   84 10 43.53   20.0     0.931   .464 2100   .1064   83 53 34.99   21.94   .981   .469 3992   .1012   84 11 24.44   20.4     0.931   .464 2100   .1064   83 53 34.99   21.92   .982   .469 8033   .1011   84 11 46.20   20.0     0.932   .464 4226   .1062   83 54 40.73   21.88   .984   .469 7024   .1009   84 12 27.88   20.6     0.933   .464 4226   .1062   83 54 40.73   21.88   .984   .469 7024   .1009   84 12 27.88   20.6     0.935   .464 6347   .1060   83 55 02.59   21.86   .983   .469 8033   .108   41 12 49.0   .20.0     0.937   .464 8464   .1058   83 55 02.59   21.86   .985   .469 8033   .108   41 12 07.05   20.6     0.937   .464 8464   .1058   83 55 02.59   21.86   .985   .469 8033   .108   41 12 07.05   20.6     0.938   .464 9521   .1056   83 56 08.07   21.75   .989   .470 0047   .1006   84 13 00.24   .20.0     0.939   .465 1632   .1054   83 55 10.60   21.75   .990   .470 0047   .1006   84 13 00.23   .20.0     0.942   .465 8891   .1059   83 55 10.60   .21.75   .2.990   .470 0047   .1006   84 13 30.23   .20.0     0.943   .465 6891   .1049   .83 58 40.07   .21.64   .2.995   .470 0057   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069   .470 0069	.916 .917 .918	.462 6023 .462 7102 .462 8180	1080 1079 1078	83 48 03.38 83 48 25.64 83 48 47.88	22.27 22.25 22.23	.966 .967 .968	.467 8694 .467 9721 .468 <b>0</b> 74 <b>7</b>	1027 1026 1025	84 06 09.80 84 06 30.98 84 06 52.14	21.1 21.1 21.1 21.1 21.1
926	.921 .922 .923	.463 1409 .463 2483 .463 3555	1074 1073 1072	83 49 54.47 83 50 16.62 83 50 38.75	22.16 22.14 22.12	.971 .972 .973	.468 3819 .468 4841 .468 5861	1022 1021 1020	84 07 55.50 84 08 16.58 84 08 37.64	21.1 21.0 21.0 21.0 21.0
.931       .464       2100       1064       83       53       34.99       21.94       .981       .469       3992       1012       84       11       25.33       20.6         .932       .464       3163       1063       83       53       56.93       21.92       .982       .469       5003       1011       84       11       46.20       20.8         .933       .464       4226       1061       83       54       40.73       21.88       .984       .469       60014       1010       84       12       07.05       20.8         .934       .464       5287       1061       83       55       02.59       21.88       .984       .469       7024       1009       84       12       27.88       20.8         .935       1.464       6347       1050       83       55       02.59       21.86       .2.985       1.469       8033       1008       84       12       28.68       20.8         .937       .464       8464       1058       83       55       46.20       21.81       .986       .469       9040       1006       84       13       30.23       20.2         .938 </td <td>.926 .927 .928</td> <td>.463 6768 .463 7836 .463 8904</td> <td>1069 1068 1067</td> <td>83 51 45.00 83 52 07.05 83 52 29.07</td> <td>22.05 22.03 22.01</td> <td>.976 .977 .978</td> <td>.468 8918 .468 9935 .469 0950</td> <td>1017 1016 1015</td> <td>84 09 40.68 84 10 01.65 84 10 22.60</td> <td>21.00 20.90 20.90 20.90 20.90</td>	.926 .927 .928	.463 6768 .463 7836 .463 8904	1069 1068 1067	83 51 45.00 83 52 07.05 83 52 29.07	22.05 22.03 22.01	.976 .977 .978	.468 8918 .468 9935 .469 0950	1017 1016 1015	84 09 40.68 84 10 01.65 84 10 22.60	21.00 20.90 20.90 20.90 20.90
.936       .464       7406       1059       83       55       24.44       21.83       .986       .469       9040       1007       84       13       09.47       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2       20.2	.931 .932 .933	.464 2100 .464 3163 .464 4226	1064 1063 1062	83 53 34.99 83 53 56.93 83 54 18.84	21.94 21.92 21.90	.981 .982 .983	.469 3992 .469 5003 .469 6014	1012 1011 1010	84 11 25.33 84 11 46.20 84 12 07.05	20.8 20.8 20.8 20.8 20.8
.941       .465       2686       1053       83       57       13.34       21.73       .991       .470       4064       1002       84       f4       53.69       20.6         .942       .465       3739       1052       83       57       35.06       21.70       .992       .470       5065       1001       84       15       13.75       20.6         .943       .465       4700       1051       83       57       56.75       21.68       .993       .470       6066       1000       84       15       34.39       20.6         .944       .465       5841       1050       83       58       18.42       21.66       .994       .470       7066       999       84       15       55.01       20.6         2.945       1.465       6891       1049       83       58       40.07       21.64       2.995       1.470       8065       998       84       16       15.61       20.5         .946       .465       7939       1048       83       59       17.70       21.62       .996       .470       9062       997       84       16       56.75       20.5         .948	.936 .937 .938	.464 7406 .464 8464 .464 9521	1059 1058 1056	83 55 24.44 83 55 46.26 83 56 08.07	21.83 21.81 21.79	.986 .987 .988	.469 9040 .470 0047 .470 1053	1007 1006 1005	84 13 09.47 84 13 30.23 84 13 50.98	20.80 20.75 20.75 20.75 20.75
.946     .465     7939     1048     83     59     01.70     21.62     .996     .470     9062     997     84     16     36.19     20.8       .947     .465     8987     1047     83     59     23.31     21.60     .997     .471     0059     996     84     16     56.75     20.5       .948     .466     0033     1046     83     59     44.90     21.58     .998     .471     1055     995     84     17     17.29     20.5       .949     .466     1079     1045     84     00     06.46     21.55     .999     .471     2050     994     84     17     37.81     20.5       2.950     1.466     2123     1044     84     00     28.00     21.53     3.000     1.471     3043     993     84     17     58.30     20.4	.941 .942 .943	.465 2686 .465 3739 .465 4790	1053	83 57 13.34 83 57 35.06	21.73 21.70 21.68	.992 .993	.470 4064 .470 5065 .470 6066	1002 1001	84 14 53.09 84 15 13.75 84 15 34.39	20.69 20.69 20.69 20.69 20.69
	.946 .947 .948	.465 7939 .465 8987 .466 0033	1048 1047 1046	83 59 01.70 83 59 23.31 83 59 44.90	21.62 21.60 21.58	.996 .997 .998	.470 9062 .471 0059 .471 1055	997 996 995	84 16 36.19 84 16 56.75 84 17 17.29	20.59 20.5 20.5 20.5 20.5
	2.950 u	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				3.000 u	1.47I 3043  2 tan-1(eu)- $\frac{\pi}{2}$			20.49 ∞ sech i

			Th	ie Gude	rmanni	ian.			
u	gd u	ω <b>F</b> <sub>0</sub> ′	gd u	ω <b>F</b> υ′	u	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> ′
3.00 .01 .02 .03 .04	1.471 3043 .472 2927 .473 2713 .474 2401 .475 1994	9933 9835 9737 9641 9545	84 24 44.01 84 28 <b>03.8</b> 6	204.88 202.85 200.84 198.85 196.88	3.50 .51 .52 .53 .54	1.510 4199 .511 0203 .511 6147 .512 2033 .512 7859	6034 5974 5915 5856 5798	86 36 32.92	" 124.46 123.22 122.00 120.79 119.59
3.05 .06 .07 .08 .09	1.476 1492 .477 0896 .478 0206 .478 9425 .479 8551	9451 9357 9264 9173 9082	84 37 51.59 84 41 03.64 84 44 13.78	194.93 193.00 191.09 189.20 187.32	3.55 .56 .57 .58 .59	1.513 3628 .513 9340 .514 4995 .515 0594 .515 6137	5740 5683 5627 5571 5516	86 44 31.30 86 46 27.94	118.40 117.22 116.06 114.91 113.66
3.10 .11 .12 .13 .14	1.480 7588 .481 6535 .482 5393 .483 4164 .484 2847	8814 8727	84 53 32.97 84 56 35.69	185.47 183.63 181.81 180.00 178.22	3.60 .61 .62 .63 .64	1.516 1625 .516 7058 .517 2438 .517 7764 .518 3037	5461 5406 5353 5300 5247	86 52 10.96 86 54 03.03 86 55 53.99 86 57 43.85 86 59 32.62	112.63 111.52 110.41 109.31 108.22
3.15 .16 .17 .18	1.485 1445 .485 9957 .486 8385 .487 6729 .488 4991		85 08 28.61 85 11 22.45 85 14 14.56	176.45 174.70 172.97 171.26 169.56	3.65 .66 .67 .68 .69	1.518 8258 .519 3427 .519 8544 .520 3611 .520 8627			107.15 106.08 105.03 103.99 102.95
3.20 .21 .22 .23 .24	1.489 3170 .490 1269 .490 9287 .491 7226 .492 5085	8139 8058 7978 7899 7821	85 22 40.73 85 25 26.12 85 28 09.86	167.88 166.21 164.56 162.93 161.32	3.70 .71 .72 .73 .74	1.521 3593 .521 8511 .522 3379 .522 8199 .523 2971	4942 4893 4844 4796 4748	87 11 44.31 87 13 24.73 87 15 04.14	101.93 100.92 99.91 98.92 97.94
3.25 .26 .27 .28 .29	1.493 2867 .494 0572 .494 8200 .495 5753 .496 3231	· 7743 7667 7590 7515 7441		159.71 158.13 156.56 155.01 153.47	3.75 .76 .77 .78 .79	1.523 7695 .524 2373 .524 7004 .525 1589 .525 6128	4701 4654 4608 4562 4517	87 18 20.02 87 19 56.50 87 21 32.03 87 23 06.60 87 24 40.23	96.96 96.00 95.05 94.10 93.17
3.30 .31 .32 .33 .34	1.497 0634 .497 7964 .498 5221 .499 2407 .499 9521			151.95 150.44 148.95 147.47 146.00	.81	1.526 0622 .526 5072 .526 9478 .527 3839 .527 8157	4472 4428 4384 4340 4297	87 26 12.93 87 27 44.71 87 29 15.58 87 30 45.55 87 32 14.62	92.24 91.32 90.42 89.52 88.63
3.35 .36 .37 .38 .39	1.500 6564 .501 3537 *.502 0441 .502 7277 .503 4045	7008 6939 6870 6802 6734	86 01 16.44 86 03 38.84 86 05 50.84	144.56 143.12 141.70 140.29 138.90	3.85 .86 .87 .88	1.528 2433 .528 6666 .529 0856 .529 5005 .529 9113	4170 4128	87 33 42.80 87 35 10.11 87 36 36.55 87 38 02.13 87 39 26.86	87.75 86.87 86.01 85.15 84.31
3.40 .41 .42 .43 .44	1.504 0746 .504 7380 .505 3948 .506 0451 .506 6889	6536 6471 6406	86 12 54.48 86 15 09.96 86 17 24.10 86 19 36.90	137.52 136.16 134.80 133.47 132.14	3.90 .91 .92 .93 .94	1.530 3180 .530 7207 .531 1193 .531 5140 .531 9048	3927 3888	87 43 36.03 87 44 57.45	83.47 82.64 81.82 81.00 80.20
3.45 .46 .47 .48 .49	1.507 3264 .507 9575 .508 5823 .509 2010 .509 8135	6217 6156	86 23 58.56 86 26 07.44 86 28 15.05 86 30 21.39	130.83 129.53 128.24 126.97 125.71	3.95 .96 .97 .98	1.532 2917 .532 6747 .533 0539 .533 4294 .533 8011	3773 373 <sup>6</sup> 3699	87 51 32.52 87 52 49.19	79.40 78.61 77.83 77.06 76.29
3.50 u	1.510 4199 2 tan-1(eu) $\frac{\pi}{2}$	6034 ω sech u	86 32 26.47 2 tan <sup>-1</sup> (e <sup>u</sup> )-90°	124.46 ω sech u	4.00 u	1.534 1691  2 tan <sup>-1</sup> (e <sup>u</sup> ) $-\frac{\pi}{2}$	3662 ∞ sech u		75 • 53 ∞ sech u

u	gd u	ω <b>F</b> <sub>0</sub> ′	gd ų	ωF <sub>0</sub> ′	u	gd u	ωF <sub>0</sub> ′	gdu	ω <b>F</b> <sub>0</sub> ′
4.00 .01 .02 .03	1.534 1691 •534 5335 •534 8943 •535 2514	3554	87 54 05.10 87 55 20.26 87 56 34.67 87 57 48.33	75.53 74.78 74.04 73.30	4.50 .51 .52 .53	1.548 5792 .548 8003 .549 0191 .549 2358	2178 2176	88 43 37.40 88 44 22.99 88 45 08.13 88 45 52.82 88 46 37.07	45.82 45.37 44.92 44.47
.04 4.05 .06 .07 .08	.535 6050 1.535 9551 .536 3017 .536 6449 .536 9846 .537 3210	3518 3483 3449 3415 3381 3347	87 59 01.27 88 00 13.48 88 01 24.97 88 02 35.76 88 03 45.83 88 04 55.22	72.57 71.85 71.14 70.43 69.73 69.03	.54 4.55 .56 .57 .58	1.549 6627 .549 8730 .550 0811 .550 2873 .550 4913	2092 2071 2051	88 47 20.88 88 48 04.25 88 48 47.19 88 49 29.70 88 50 11.79	44.03 43.59 43.15 42.73 42.30 41.88
4.10 .11 .12 .13	1.537 6540 .537 9837 .538 3102 .538 6333 .538 9533	3314 3281 3248 3216 3184	88 07 11.91 88 08 19.25	68.35 67.67 67.00 66.33 65.67	4.60 .61 .62 .63 .64	1.550 6933 .550 8933 .551 0914 .551 2874 .551 4815	2010 1990 1970 1951 1931	88 50 53.46 88 51 34.72 88 52 15.56 88 52 56.00 88 53 36.04	41.46 41.05 40.64 40.24 39.84
4.15 .16 .17 .18	1.539 2701 .539 5837 .539 8943 .540 2017 .540 5061	3152 3121 3090 3059 3029	88 11 37.25 88 12 41.94 88 13 45.99 88 14 49.40 88 15 52.19	65.02 64.37 63.73 63.10 62.47	4.65 .66 .67 .68 .69	1.551 6737 .551 8640 .552 0523 .552 2388 .552 4235	1912 1893 1874 1856 1837	88 54 15.68 88 54 54.92 88 55 33.77 88 56 12.24 88 56 50.33	39.44 39.05 38.66 38.28 37.89
4.20 .21 .22 .23 .24	1.540 8074 .541 1058 .541 4012 .541 6936 .541 9831	2998 2969 2939 2910 2881		61.85 61.23 60.62 60.02 59.42	4.70 .71 .72 .73 .74	1,552 6063 •552 7873 •552 9664 •553 1438 •553 3195	1819 1801 1783 1765 1748	88 57 28.03 88 58 05.36 88 58 42.32 88 59 18.91 88 59 55.14	37.52 37.14 36.77 36.41 36.05
4.25 .26 .27 .28 .29	1.542 2698 .542 5536 .542 8346 .543 1128 .543 3882	2852 2824 2796 2768 2741	88 21 55.98 88 22 54.52 88 23 52.48 88 24 49.86 88 25 46.67	58.83 58.25 57.67 57.09 56.53	4.75 .76 .77 .78 .79	1.553 4934 .553 6655 .553 8360 .554 0047 .554 1718	1730 1713 1696 1679 1662	80 00 31.01 80 01 06.52 80 01 41.68 80 02 16.48 80 02 50.94	35.69 35.33 34.98 34.63 34.29
4.30 .31 .32 .33 .34	1.543 6609 •543 9308 •544 1981 •544 4628 •544 7247	2713 2686 2660 2633 2607	88 26 42.91 88 27 38.60 80 28 33.73 88 29 28.31 88 30 22.35	55.96 55.41 54.86 54.31 53.77	4.80 .81 .82 .83 .84	1.554 3372 .554 5010 .554 6631 .554 8236 .554 9825	1646 1630 1613 1597 1581	89 03 25.06 89 03 58.84 89 04 32.28 89 05 05.39 89 05 38.17	33.95 33.61 33.28 32.94 32.62
4·35 .36 .37 .38 .39	1.544 9841 .545 2409 .545 4952 .545 7469 .545 9961	2581 2555 2530 2505 2480	88 31 15.85 88 32 08.82 88 33 01.27 88 33 53.19 88 34 44.59	53.24 52.71 52.18 51.66 51.15	4.85 .86 .87 .88 .89	1.555 1399 .555 2957 .555 4499 .555 6026 .555 7538	1566 1550 1535 1519 1504	89 06 10.63 89 06 42.76 89 07 14.57 89 07 46.07 89 08 17.25	32.29 31.97 31.65 31.34 31.03
4.40 .41 .42 .43 .44	1.546 2429 .546 4872 .546 7290 .546 9685 .547 2055	2455 2431 2407 2383 2359	88 38 05.15	50.64 50.14 49.64 49.14 48.65	4.90 .91 .92 .93 .94	1.555 9034 .556 0516 .556 1983 .556 3436 .556 4874			30.72 30.41 30.11 29.81 29.51
4.45 .46 .47 .48 .49	1.547 4403 .547 6726 .547 9027 .548 1305 .548 3560	2335 2312 2289 2266 2244	88 41 17.85	48.17 47.69 47.22 46.75 46.28	4.95 .96 .97 .98 .99	1.556 6297 .556 7707 .556 9103 .557 0484 .557 1852	1403 1389 1375	89 11 17.93 89 11 47.01 89 12 15.79 89 12 44.29 89 13 12.51	29.22 28.93 28.64 28.36 28.07
4.50		2222			5.00	1.557 3206		89 13 40.44	27.79
U	2 tan <sup>-1</sup> (e <sup>u</sup> )-π/2	∞ sech u	2 tan-1(eu)-90°	ω sech u	u u	$2 \tan^{-1}(e^{it}) - \frac{\pi}{2}$	ω sech u	2 tan-1(eu)-90°	ω sech

u-	gd u	ωF <sub>0</sub> ′	gd u	ω <b>F</b> <sub>0</sub> /	u	gd u	ωF <sub>0</sub> ′	gd u	ωF
5.00 .01 .02 .03	1.557 3206 ·557 4547 ·557 5875 ·557 7189 ·557 8490	1348 1334 1321 1308 1295	89 13 40.44 89 14 08.10 89 14 35.48 89 15 02.58 89 15 29.42	27.79 27.52 27.24 26.97 26.71	5.50 .51 .52 .53 .54	1.562 6228 .562 7042 .562 7847 .562 8644 .562 9433	817 809 801 793 785	89 32 10.87 89 32 27.48	16. 16. 16. 16.
5.05 .06 .07 .08	1.557 9778 .558 1054 .558 2317 .558 3567 .558 4804	1244	89 15 56.00 89 16 22.30 89 16 48.35 89 17 14.14 89 17 39.67	26.44 26.18 25.92 25.66 25.40	5.55 .56 .57 .58 .59	1.563 0215 .563 0988 .563 1754 .563 2512 .563 3263	762	89 33 16.32 89 33 32.27 89 33 48.07 89 34 03.71 89 34 19.20	16. 15. 15. 15.
5.10 .11 .12 .13	1.558 6030 .558 7243 .558 8444 .558 9633 .559 0811	1219 1207 1195 1183 1172	89 18 04.94 89 18 29.97 89 18 54.74 89 19 19.27 89 19 43.56	25.15 24.90 24.65 24.41 24.16	5.60 .61 .62 .63 .64	1.563 4006 .563 4742 .563 5471 .563 6192 .563 6906	740 732 725 718 711	89 34 49.71 89 35 04.73 89 35 19.61	15. 15. 14. 14.
5.15 .16 .17 .18	1.559 1976 .559 3131 .559 4273 .559 5404 .559 6524	1160 1148 1137 1126 1114	89 20 07.60 89 20 31.40 89 20 54.97 89 21 18.31 89 21 41.41	23.92 23.69 23.45 23.22 22.99	5.65 .66 .67 .68 .69	1.563 7613 .563 8313 .563 9006 .563 9692 .564 0372	690	89 36 03.36 89 36 17.66 89 36 31.81	14. 14. 14. 13.
5.20 .21 .22 .23 .24	1.559 7633 .559 8731 .559 9818 .560 0894 .560 1959	1103 1092 1081 1071 1060	89 22 04.28 89 22 26.92 89 22 49.34 89 23 11.53 89 23 33.51	22.76 22.53 22.31 22.08 21.86	5.70 .71 .72 .73 .74	1.564 1044 .564 1710 .564 2369 .564 3022 .564 3668		89 37 13.43 89 37 27.03 89 37 40.49	13. 13. 13. 13.
5.25 .26 .27 .28 .29	1.560 3014 .560 4058 .560 5092 .560 6116 .560 7129	1049 1039 1029 1018 1008	89 23 55.26 89 24 16.80 89 24 38.13 89 24 59.24 89 25 20.14	21.65 21.43 21.22 21.01 20.80	5.75 .76 .77 .78 .79	1.564 4308 .564 4941 .564 5568 .564 6189 .564 6804	637 630 624 618 612	89 38 20.08 89 38 33.01	13. 13. 12. 12.
5.30 .31 .32 .33 .34	1.560 8132 .560 9126 .561 0109 .561 1083 .561 2047	998 988 979 969 959	89 25 40.84 89 26 01.33 89 26 21.61 89 26 41.69 89 27 01.58	20.59 20.39 20.18 19.98 19.78	5.80 .81 .82 .83 .84	1.564 7412 .564 8015 .564 8611 .564 9202 .564 9787	606 599 594 588 582	89 39 23.48 89 39 35.78 89 39 47.96	12. 12. 12. 12.
5·35 .36 ·37 .38 ·39	1.561 3001 .561 3946 .561 4881 .561 5807 .561 6724	940 931 922	89 27 21.26 89 27 40.75 89 28 00.05 89 28 19.15 89 28 38.00	19.59 19.39 19.20 19.01 18.82	5.85 .86 .87 .88	1.565 0365 .565 0939 .565 1506 .565 2068 .565 2624	565 559	89 40 11.96 89 40 23.78 89 40 35.48 89 40 47.07 89 40 58.54	11. 11. 11. 11.
5.40 .41 .42 .43 .44	1.561 7632 .561 8531 .561 9421 .562 0302 .562 1174	903 894 885 877 868	89 28 56.79 89 29 15.33 89 29 33.68 89 29 51.85 89 30 09.85	18.63 18.45 18.26 18.08 17.90	5.90 .91 .92 .93 .94	1.565 3175 .565 3720 .565 4259 .565 4794 .565 5323	542 537 532	89 41 09.90 99 41 21.15 89 41 32.28 89 41 43.30 89 41 54.21	II. II. IO. IO.
5.45 .46 .47 .48 .49	1.562 2038 .562 2893 .562 3739 .562 4577 .562 5407	859 851 842 834 826	89 30 27.66 89 30 45.29 89 31 02.75 89 31 20.04 89 31 37.15	17.72 17.55 17.37 17.20 17.03	5.95 .96 .97 .98 .99	1.565 5847 .565 6365 .565 6879 .565 7387 .565 7890	511 506	89 42 15.71	IO. IO. IO. IO.
5.50	1.562 6228	817	89 31 54.10	16.86	6.00	1.565 8388	496	89 42 57.44	10.

### TABLE VII

### THE ANTI-GUDERMANNIAN

m expressed in minutes in terms of the Gudermannian, gd u expressed in degrees and minutes.

 $1 \text{ minute} = 0.000 2908 8821 radians,}$ 

0.000 2908 8821 m = 
$$\log_e \tan \left( \frac{1}{4} \pi + \frac{1}{2} \operatorname{gd} u \right) = u$$
 radians.

In this table the second decimal place is sometimes erroneous by a unit.

The Anti-Gudermannian.

gd u	o°	I°	2°	3°	4°	5°	6°	7°	8°	9°	TO0	l ad ii
O'	0'.00	60.00	120.02	180.08	240.19	300.38	360.66	421.05	481.57	542.23	603.07	gd u O'
I	1.00	61.00	121.02	181.08	241.20	301.38	361.66	422.06	482.58		604.08	1 1
2	2.00	62.00	122.03	182.08	242.20	302.39	362.67	423.06	483.59	543.25 544.26	605.10	I 2
3	3.00	63.00	123.03	183.09	243.20	303.39	363.67	424.07	484.60	545.27	606.12	3
4	4.00	64.00	124.03	184.09	244 20	304.40	364.68	425.08	485.61	546.28	607.13	4
5	5.00	65.00	125.03	185.09	245.21	305.40	365.69	426.09	486.62	547.30	608.15	5
6	6.00	66.00	126.03	186.09	246.21	306.40	366.69	427.09	487.63	548.31	609.16	6
7 8	8.00	68.00	127.03	187.09	247.21 248.21	307.41 308.41	367.70 368.70	428.10	488.64 489.65	549.32	611.19	7 8
9	0.00	69.00	120.03	189.09	249.22	309.42	369.71	429.11 430.12	490.66	550.34 551.35	612.21	9
10	10.00	70.00	130.03	190.10	250.22	310.42	370.72	431.13	491.67	552.36	613.23	ю
11	11.00	71.00	131.03	191.10	251.22	311.42	371.72	432.13	492.68	553 - 37	614.24	11
12	12.00	72.00	132.03	192.10	252.23	312.43	372.73	433.14	493.69	554.39	615.26	12
13	13.00	73.00	1/3/3.03	193.10	253.23	313.43	373.74	434.15	494.70	555.40	616.27	13
14 15	14.00	74.01 75.01	134.03 135.03	194.10	254.23 255.23	314.44 315.44	374 <i>·7</i> 4 375 <i>·7</i> 5	435.16 436.17	495.71 496.72	556.41 557.43	617.29 618.31	14 15
16	16.00	76.01	136.03	196.11	256.24	316.45	375.75 376.75	437.17	497.73	558.44	619.32	16
17	17.00	77.01	137.04	197.11	257.24	317.45	377.76	438.18	498.74	559.45	620.34	17
18	18.00	78.01	138.04	11.801	258.24	318.45	378.76	439.19	499.75	560.47	621.36	18
19	19.00	79.01	139.04	199.11	259.25	319.46	379.77	440.20	5 <b>00.7</b> 6	561.48	622.37	19
20	20.00	80.01	140.04	200.11	260.25	320.46	380.78	441.21	501.77	562.49	623.39	20
21	21.00	81.01	141.04	201.11	261.25	321.47	381.78	442.21	502.78	563.51	624.40	21
22 23	22.00	82.01 83.01	142.04 143.04	202.12 203.12	262 <b>.2</b> 5 263 <b>.2</b> 6	322.47 323.48	382.79 383.79	443.22	503.79	505.53	625.42	22 23
24	24.00	84.01	144.04	204.12	264.26	324.48	384.80	444.23	505.81	566.55	627.45	24
25	25.00	85.01	145.04	205.12	265.26	325.48	385.81	446.25	506.83	567.56	628.47	25
26	26.00	86.or	146.04	206.12	266.27	326.49	386.81	447.26	507.84	568.57	629.49	26
27	27.00	87.01	147.04	207.13	267.27	327.49	387.82	448.26	508.85	569.59	630.50	27
28	28.00	88.01 80.01	148.05	208.13	268.27 269.27	328.50	388.83	449.27	509.86	570.60 571.62	631.52	28
29 30	29.00 30.00	90.01	149.05 1 <b>50.0</b> 5	200.13 210.13	270.28	330.51	389.83 390.84	450.28 451.29	511.88	572.63	633.56	29 30
31	31.00	91.01	151.05	211.13	271.28	331.51	391.85	452.30	512.80	573.64	634.57	31
32	32.00	92.01	152.05	212.13	272.28	332.52	392.85	453.31	513.90	574.66	635.59	32
33	33.00	93.01	153.05	213.14	273.29	333.52	393.86	454 32	514.91	575.67	636.61	33
34	34.00	94.01	154.05	214.14	274.29	334 53	394.85	455.33	515.93	576.69	637.62	34
35	35.00	95.01	155.05	215.14	275.29	335.53	395.87	456.33	516.94	577.70	638.64	35
36	36.00	96.01 97.01	15 <b>6.0</b> 5	216.14 217.14	276.30 277.30	336.54 337.54	396.88 397.88	457 · 34 458 · 35	517.95 518.96	578.71 579.73	639.66	36 37
37	37.00	98.01	158.06	218.15	278.30	338.55	398.89	459.36	519.97	580.74	641.69	38
39	39.00	99.01	159.06	219.15	279.31	339.55	399.90	460.37	520.98	581.76	642.71	39
40	40.00	100.01	160.06	220.15	280.31	340.56	400.91	461.38	521.99	582.77	643.73	40
41	41.00	101.01	161.06	221.15	281.31	341.56	401.91	462.39	523.01	583.79	644.75	4I
42	42.00	102.01	162.06	222.15 223.16	282.32 283.32	342.57	402.92	463.40 464.41	524.02	584.80 585.81	645.76 646.78	42
43	43.00	I03.02 I04.02	163 <b>.0</b> 6	224.16	284.32	343 · 57 344 · 58	403.93	465.41	525.03 526.04	586.83	647.80	43
45	45.00	105.02	165.06	225.16	285.33	345.58	405.94	466.42	527.05	587.84	648.82	45
46	46.00	106.02	166.06	226.16	286.33	346.59	406.95	467.43	528.06	588.86	649.84	46
47	47.00	107.02	167.07	227.16	287.33	347 - 59	407.95	468.44	529.08	589.87	650.85	47
48	48.00	108.02	168.07	228.17	288.34	348.60	408.96	469.45	530.09	590.89	651.87	48
49 50	49.00 50.00	109.02 110.02	109.07 170.07		289.34 290.34	349.60 350.61	409.97 410.97	4 <b>70.</b> 40	531.10 532.11	592.92	653.91	49 50
51	51.00	111.02	171.07	231.17	291.35	351.61	411.98	472.48	533.12	593.93	654.93	51
52	52.00	112.02	172.07	232.18	292.35	352.62		473.49		594.95	655.94	52
53	53.00	113.02	173.07	233.18	293.35	353.62	414.00	474.50	535.15	595.96	656.96	53
54	54.00	114.02	174.07	234.18		354.63	415.00			596.98	657.98	54
55	55.00	115.02	175.07 176.08	235.18		355.63 356.64	416.01		537.17	597.99	659.00	55
56	56.00	116.02 117.02	170.08	236.18 237.19	296.37 297.37	350.04	417.02 418.03		538.18 539.20	599.01 600.02	660.02 661.04	56
58	58.00	118.02	178.08	238.19	298.37	358.65		479.55	540.21	601.04	662.05	57 58
59	59.00	119.02	179.08	239.19	299.38	359.65	420.04	480.56	541.22	602.05	663.07	59
. 60	60.00	120.02	180.08	240.19	300.38	360.66	421.05	481.57	542.23	603.07	664.09	60
										and the second of the Second		

#### The Anti-Gudermannian.

664'.09 665.11 666.13	725.32	786.78	140	15°	16,		18°	19°	20°	gdı
	1		848.49	910.45	972.73	1035.30	1098.22	1161.49	1225.14	Ö
666 TO	726.34	787.81	849.52	911.50	973.77	i.	1000.27	1162.54	1226.20	I
	727.37	788.83	850.55	912.53	574.81		1100.32	1163.60	1227.27	2
667.15	728.39	789.83	851.58	913.57			1101.37	1164.65	1228.33	3
669.19	730.41	790.89 791.91	852.61 853.64	914.00 915.64			1102.42	1165.72	1229.10	4 5
	made districtions of	Silver Caracter 1	The Part Cont.		and the second second second	Pathodores and Colon of the	1103.47	1166.78	1230.45	6
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673.20	734 - 53	700.02		919.78		and the second of the second	1107.68	1171.01	1234.72	9
674.28	735.55	797.04	858.80	920.82			1108.74	1172.07	1235.79	10
675.30	736.57		859.83	921.85	984.17	1046.81	1109.79	1173.13	1236.85	ΙI
					985.22	1047.85	1110.84	1174.19	1237.92	12
								1175.24		-
670.38					088 24					14 15
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	741.09.								BONG - COUNTRY OF THE OWNER.	17
682.44	743.73	805.25	857.05	923.11						18
683.46	744.76	806.29	868.08	930.15	992.51		1118.21	1181.60	1245.38	19
684.48	745.78	807.32	859.11	¢31.18	993.55	1056.24	1119.27	1182.56	1246.44	20
685.50	746.81	808.35	870.14	932.22				1183.72	1247.51	21
	747.83			933.20		1058.33	1121.37	1181.78	1248.58	22
688 66	748.85								MCSection at the	23
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		Man and the second			11.	. 10	医格克勒氏征 网络阿拉	1. <b>特别</b> 的第三人称形式	n main wat	25
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693.66	755.00	816.57	878.40	940.52			1128.75	1102.20		29
694.68	756.02	817.60		941.56	1003.97	1066.72		1193.25	1257.12	30
695.70	757.05	818.63	880.47	942.59	1005.02	1067.77	1130.86	1194.32	1258.18	31
696.72	758.07	819.66	831.50	943.63	1005.06	1008.81	1131.92	1195.39	1259.25	32
								1195.45	1200.32	33
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				1.1		100				35
			885.67							36
			887.70					<ul><li>- を除っていることにごがる</li></ul>		37 38
703.87	765.24	826.85	888.74	950.90	1013.36			1202.82	1265.73	39
704.89	766.27	827.89	889.77	951.94			1140.36	1203.88	1267.80	40
705.91		828.92	890.80	952.98				1204.94	1268.87	41
706.93	768.32	829.95	891.84	954.01			1142.47	1206.00	11269.93	42
						1080.35				43
7.00					2.7					44
										45
<ul> <li>21 (2) 5 (1) (4)</li> </ul>	Albertage, or entry					1003.51	1140.00			46 47
			893.04	950.25		1085.61	1148.80	1212.38		48
714.08	775.49	837.15	899.08	961.29	1023.81			1213.44	1277.42	49
715.10	776.52	838.18	900.11	962.33	1024.85	1087.71	1150.92	1214.50	1278.49	50
716.12	777.54	839.21	901.15		1025.90	1088.76	1151.97		1279.56	51
717.15								1216.63	1280.63	52
						1000.80	1154.00			53
		~ · .7:			1030.03					54 55
		- 2				1 1 1 1 1 1 V	11	/	Francisco Control	55 56
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		846.42	908.39			1006.11	1150.37			58
724.30	785.75	847.45	909.43	971.69	1034.26	1097.16	1160.43	1224.07	1288.13	<b>5</b> 9
725.32	786.78	848.49	910.46	972.73	1035.30	1098.22	1161.49	1225.14	1289.20	60
	2007000000		erak bitakarian induses		Telepidistrasis sinking					
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705.91 767.29 705.91 767.29 706.93 768.32 707.95 769.34 708.97 770.37 709.99 771.39 711.02 772.42 712.04 73.44 713.06 774.47 714.08 775.49 719.19 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 716.12 777.54 717.15 778.57 718.17 776.52 718.17 776.52 718.17 776.52 718.17 776.52 719.19 786.62 720.21 781.65	671.22	671.22 732.48 793.07 855.70 672.24, 733.50 761.60 857.76 674.28 735.55 761.60 857.76 674.28 735.55 797.04 858.80 675.30, 736.57 798.07 859.83 676.32 737.50 800.83 676.32 737.50 800.83 677.34 738.62 800.13 861.89 678.36 739.64 801.15 852.92 680.40 741.69 803.21 864.98 681.12 7;2.71 804.24 866.02 682.44 743.73 805.25 837.05 683.46 744.76 806.29 868.08 684.48 745.78 807.32 809.11 685.50 746.81 808.35 870.14 685.52 747.83 809.37 871.18 685.52 747.83 809.37 871.18 685.52 747.83 809.37 871.18 685.52 749.88 811.43 873.24 689.58 750.90 812.46 874.27 690.60 751.92 813.49 875.31 691.62 752.95 814.52 876.34 692.64 753.97 815.54 877.37 694.68 756.02 817.60 879.44 695.70 757.05 818.63 880.47 694.68 756.02 817.60 879.44 695.70 757.05 818.63 880.47 694.68 756.02 817.60 879.44 695.70 757.05 818.63 880.47 696.72 758.07 819.66 831.50 697.74 759.09 820.69 882.54 698.76 760.12 821.71 883.57 699.78 761.14 822.74 884.60 700.80 762.17 823.77 885.64 700.80 762.17 823.77 885.64 700.80 762.17 823.77 885.64 700.80 762.17 823.77 885.64 704.89 766.27 827.89 889.77 705.91 767.29 828.92 800.80 706.93 768.32 829.95 891.84 707.95 769.34 830.98 892.87 709.99 771.39 833.03 894.94 711.02 772.42 834.06 885.97 709.99 771.39 833.03 894.94 711.02 772.42 834.06 885.97 709.99 771.39 833.03 894.94 711.02 775.49 837.15 899.08 715.10 776.52 838.18 900.11 716.12 777.54 839.21 901.15 716.12 777.54 839.21 901.15 717.15 778.57 841.27 703.28 784.73 440.24 903.39 715.10 776.52 838.18 900.11 716.12 777.54 839.21 901.15 717.15 778.57 841.27 703.28 784.73 909.28 722.26 783.70 845.39 907.35 722.26 783.70 845.39 907.35 722.26 783.70 845.39 907.35 722.26 783.70 845.39 907.35 723.28 784.73 846.42 908.39 724.30 785.75 847.45 909.43 725.32 786.78 848.49 910.46	671.22 732.48 793.67 855.70 917.71 672.21 733.50 761.69 855.73 918.75 673.26 734.63 76.02 857.76 919.78 674.28 735.55 707.04 858.80 920.82 675.30 736.57 709.10 858.80 920.82 80 675.30 736.57 709.10 800.85 922.89 677.34 738.62 800.13 801.89 923.93 678.36 739.64 801.15 802.22 924.96 80.40 741.69 803.21 864.98 927.03 881.42 742.71 804.24 866.02 928.07 683.46 744.76 806.29 868.08 930.15 885.50 746.81 808.35 870.14 932.22 809.11 631.18 805.52 747.83 809.37 871.18 933.26 885.52 747.83 809.37 871.18 933.26 885.52 747.83 809.37 871.18 933.26 885.52 747.83 809.37 871.18 933.26 885.56 749.88 811.43 873.24 935.33 689.58 750.09 812.46 874.27 935.37 600.60 751.92 813.49 875.31 937.40 691.62 752.95 814.52 876.34 938.44 692.64 753.97 815.54 807.37 939.48 603.66 755.00 816.57 878.40 940.52 817.60 879.44 941.56 695.70 757.05 818.63 880.47 942.59 606.72 758.07 819.60 831.50 943.63 697.74 759.09 820.69 822.54 944.67 809.77 750.99 820.69 822.54 944.67 809.77 770.37 822.77 885.64 946.74 770.82 761.14 822.74 884.60 946.74 778 701.82 763.19 824.80 885.67 948.82 700.80 762.17 823.77 885.64 946.77 809.87 765.24 826.80 885.67 948.82 700.80 762.17 823.77 885.64 946.74 770.08 760.34 830.98 830.70 1959.11 951.11 82 763.19 824.80 885.67 948.82 700.80 762.17 823.77 885.64 946.74 778 701.82 763.19 824.80 885.67 948.82 700.80 762.17 823.77 885.64 946.74 778 701.82 763.19 824.80 885.67 948.82 700.80 762.17 823.77 885.64 946.74 778 701.82 763.19 824.80 885.67 948.82 700.80 762.17 823.77 885.64 946.74 778 701.82 763.19 824.80 885.67 948.82 700.90 771.30 833.03 894.94 955.13 711.02 772.42 834.06 805.97 955.19 770.52 888.90 80 952.98 706.93 768.32 829.95 801.84 954.01 962.33 711.02 772.42 834.06 805.97 955.17 709.99 771.30 833.09 807.01 959.21 713.00 774.47 836.12 779.99 841.27 903.32 905.45 907.53 711.02 772.42 834.06 805.97 958.17 711.02 772.42 834.06 805.97 958.17 711.02 772.42 834.06 805.97 955.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 905.95 90	677.1.22         733.58         793.67         855.73         917.71         080.01           672.24         733.50         751.90         857.76         919.78         982.00           673.267         734.53         756.02         857.76         919.78         982.00           674.28         735.55         797.04         858.80         920.82         983.13           675.30         736.57         7,80.07         859.83         921.85         984.17           677.31         738.62         800.13         861.80         923.93         986.26           677.34         736.62         800.13         861.80         923.93         986.26           679.38         740.66         802.18         83.95         921.00         988.34           681.42         743.73         805.20         87.03         989.38           681.42         743.73         805.20         88.00         930.15         992.51           683.40         744.76         806.20         868.08         930.15         992.51           685.50         746.81         808.35         870.14         932.22         994.59           685.52         747.83         809.37         871.18	677.22 732.48 793.57 855.70 917.71 980.01 1042.63 673.26 734.53 794.69 855.76 910.78 982.00 1042.63 673.26 734.53 7.50.02 857.76 910.78 982.00 1044.72 675.30 736.57 798.07 859.83 921.85 981.17 1046.81 676.32 737.59 795.10 808.80 920.82 983.13 1045.77 676.30 736.57 798.07 859.83 921.85 984.17 1046.81 676.32 737.59 795.10 808.83 921.85 985.22 1047.80 677.34 738.62 800.13 861.89 923.93 986.20 1048.93 678.36 730.64 831.15 802.92 924.90 987.30 1049.95 679.38 740.66 802.18 803.95 923.00 987.30 1049.95 680.40 741.69 803.21 864.98 927.03 989.38 1052.05 881.47 742.71 804.24 866.02 628.07 990.42 1053.00 882.44 743.73 805.20 879.03 921.11 991.47 1054.14 868.48 744.76 806.29 808.08 930.15 992.51 1055.17 683.46 744.76 806.29 808.08 930.15 992.51 1055.17 685.65 747.83 809.37 871.18 932.22 904.59 1057.28 685.52 747.83 809.37 871.18 932.22 904.59 1057.28 686.55 749.88 811.43 873.24 935.33 997.72 1073.13 689.58 750.90 813.49 875.31 932.45 990.68 1059.38 689.58 750.90 813.49 875.31 933.49 935.33 997.72 1073.13 692.65 692.64 753.97 815.54 877.37 393.44 1000.85 1063.57 694.68 755.00 816.57 878.40 940.52 1002.93 1055.67 694.68 755.00 816.57 878.40 940.52 1002.93 1055.67 77.76 696.72 758.00 816.57 878.40 940.52 1002.93 1055.67 705.12 821.71 883.57 945.71 1008.15 1070.91 690.79 707.29 823.77 885.64 947.78 1010.23 1073.01 707.82 707.24 823.77 885.64 947.78 1010.23 1073.01 707.82 707.44 832.00 887.94 944.67 1007.10 1069.86 698.70 707.29 828.58 887.70 99.85 101.48 1010.49 1010.49 1010.49 1010.49 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1017-85 1110-84 676-33 730-64 801-15 802-92 924-96 987-30 1049-95 1112-95 670-38 740-66 802-18 833-95 920-00 988-34 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 989-38 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 989-38 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 989-38 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 989-38 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 989-38 1051-00 1114-00 680-10 711-20 803-21 864-98 927-03 990-42 1053-00 1116-11 682-44 745-78 807-32 809-11 931-18 902-55 1155-55 115-10 1118-21 111-20 682-44 745-78 807-32 809-11 931-18 902-55 1055-12 1118-21 685-50 746-81 808-35 870-14 932-22 904-50 1055-38 1122-13 685-50 746-81 808-35 870-14 932-22 904-50 1055-38 1122-37 685-50 746-81 808-35 870-14 932-22 904-50 1055-38 1122-37 685-50 746-81 808-35 870-14 932-22 904-50 1055-38 1122-37 686-55 79-90 812-44 873-24 935-37 997-72 1053-33 1121-37 690-68 757-90 813-49 875-31 933-48 1001-80 1054-62 127-70 693-66 755-90 814-52 885-80 940-52 1002-23 1056-57 1128-55 690-74 759-00 816-57 878-40 940-52 1002-23 1056-57 1128-55 690-74 759-00 816-57 878-40 940-52 1002-23 1056-57 1128-55 690-74 759-00 816-57 878-40 940-52 1002-23 1056-57 1128-13 690-78 707-35 883-89 880-47 942-59 1005-23 1056-57 1128-13 690-78 707-35 883-89 880-47 942-59 1005-23 1056-57 1128-13 690-78 707-35 883-89 880-47 942-59 1005-23 1056-57 1128-13 690-78 707-35 883-89 880-47 942-59 1005-23 1056-57 1128-13 690-78 707-37 883-68 883-67 948-47 1000-19 1071-96 1135-08 700-19 700-95 700-95 700-95 883-99 880-70 955-05 1007-54 1034-51 1144-55 690-79 707-37 883-99 880-70 955-05 1007	677.22 73.2. 48 733. 67 74.09 859.73 918.75 881.05 1042.63 1105.88 1108.86 679.24 733.50 74.09 859.73 918.75 881.05 1043.67 1106.63 1106.95 673.24 731.55 797.04 858.80 920.82 983.13 1045.77 11068.74 1172.07 675.32 737.50 705.10 858.80 920.82 983.13 1045.77 11068.74 1172.07 670.32 737.50 705.10 800.85 922.80 985.22 1047.86 1110.84 1174.10 1177.35 670.32 737.50 705.10 800.85 922.80 985.22 1047.86 1110.84 1174.10 1177.35 670.32 730.61 851.15 832.92 924.90 985.25 1047.86 1110.84 1174.10 1177.35 679.38 740.64 851.15 832.92 924.90 985.25 1047.86 1110.84 1174.10 1177.35 679.38 740.64 801.15 832.92 924.90 985.25 1047.86 1110.84 1174.10 1177.35 680.40 741.60 803.21 864.98 922.03 988.34 1051.00 1111.00 1177.35 681.10 1177.35 680.40 741.60 803.21 864.98 927.03 988.34 1051.00 1111.00 1177.35 683.44 743.73 865.20 837.03 529.11 900.42 1053.00 1116.11 1179.48 683.46 744.70 806.29 868.88 930.15 992.51 1055.17 1118.21 1181.60 884.47 474.78 807.32 859.11 931.49 932.55 1056.24 1119.27 1182.54 685.52 744.83 809.37 871.18 933.25 905.55 1056.24 1119.27 1182.66 885.50 749.88 811.43 873.42 932.37 906.15 1055.17 118.21 37 1181.60 689.38 750.99 812.40 875.31 933.33 937.72 1051.43 1123.43 1181.60 690.60 751.02 813.49 875.31 933.49 1000.85 1005.45 112.37 1183.13 1181.60 690.60 751.02 813.49 875.31 933.49 1000.85 1005.45 112.37 1183.25 1183.00 690.60 755.00 816.57 878.40 940.52 1002.93 1005.67 112.37 1133.48 1183.00 690.60 755.00 816.57 878.40 940.52 1002.93 1005.67 112.37 1133.48 1183.00 690.60 757.02 813.64 887.37 944.57 1003.97 1006.45 1123.27 1105.45 1003.97 1005.45 1123.38 1183.00 93.87 1000.85 750.00 817.60 887.94 940.52 1002.93 1005.67 1123.53 1133.00 1105.05 1003.97 1005.45 1123.00 1139.00 1105.00 887.00 940.60 1100.86 133.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123.00 940.60 1123	677.22 732.45 793.57 855.70 917.71 880.01 1042.63 1105.88 1168.89 1233.50 673.26 734.53 725.02 857.76 910.78 682.00 1044.72 1107.68 1111.69.95 1233.70 674.28 735.55 77.08 888.80 920.82 983.13 1045.77 1108.74 1172.07 1233.70 675.30 736.57 748.07 859.83 921.85 884.13 1045.77 1108.74 1172.07 1233.70 677.34 738.02 800.13 801.89 922.89 985.22 1017.85 1110.84 1174.19 1237.92 677.34 738.02 800.13 801.89 922.89 985.22 1017.85 1110.84 1174.19 1237.92 679.38 70.90 66 802.18 833.99 923.09 (88.0.2) 014.72 1111.80 1175.24 1238.26 80.00 13.00 1111.00 1177.32 1235.70 1240.05 800.00 1111.00 1111.00 1177.32 1241.80 803.20 924.90 987.30 1049.95 1112.05 1175.32 1236.85 1236.80 1233.00 1111.00 1111.00 1177.32 1241.80 1245.80 1244.47 1242.18 805.02 924.90 987.30 1049.95 1112.05 1175.32 1241.00 803.21 804.98 927.03 88.34 1051.00 1114.00 1114.77 35 1241.23 126.85 126.84 127.27 184.26 803.26 807.03 920.00 988.34 1051.00 1114.00 1114.77 35 1241.33 124.00 124.47 124.70 805.29 807.32 809.00 1991.47 1054.14 1177.16 118.05 41244.31 803.49 124.40 124.40 805.29 809.11 991.47 1054.14 1177.16 118.05 41244.31 803.49 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 124.40 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od u	21°	22°	23°	24°	25°	26°	27°	28°	29°	30°	gđ ụ
o'	1280'.20	1353.69	1418.63	1484.06	1549.99	1616.47	1683.52	1751.16	1819.44	1888.38	0
I	1290.27	1354.76	1419.72	1485.15	1551.10	1617.58	4.5		1820.58	1889.53	ı
2	1291.34	1355.84	1420.80	1486.25	1552.20	1618.70	1685.76	1753.43	1821.72	1890.69	2
3	1292.41	1356.92			1553.31		1686.88	1754.56	1822.87	1891.84	3
4 5	1293.48		1422.98 1424. <b>0</b> 6	1488.44	1554.41 1555.51	1620.92	1680.13	1755.69 1756.83	1824.01	1893.00	5
6	1205.63				1556.62	1623.15		1757.96	1826.30	1895.31	6
7	1296.70		1426.24	1491.72	1557.72	1624.26	1691.38	1759.09	1827.44	1896.46	7
8	1297.77 1298.84	1362.32		1492.82	1558.83			1760.23	1828.59	1897.62	8
9 10	1290.04		1428.41 1429.50	1493.91 1495.01	1559.93 1561.04		1694.75		1830.88	1899.93	9 10
11	1300.99	1365.56	1430.59	1496.11	1562.14	1628.72	1695.87	1763.63	1832.02	1901.09	11
12		1366.64			1563.25	1629.84		1764.77	1833.17	1902.25	12
13 14	1303.13	1367.72 1368.80	1432.76	1498.30	1564.35 1565.46	1630.95	1699.25	1 <b>7</b> 6 <b>5.9</b> 0	1834.32 1835.46	1903.40	13 14
15	1305.28			1500.49	1566.56	1633.18		1768.17	1836.61	1905.72	15
16	1306.35	1370.96	1436.03	1501.59	1567.67				1837.75	1906.88	16
17			1437.12		1568.77	1635.41	1702.62		1838.90	1908.03	17
18	1308.50 1309.57	v. • 1	1438.21 1439.29	1503.78	1569.88 1570.99	1636.52 1637.64		1771.58	1840.05	1909.19 1910.35	18 19
20	1310.64			1505.98	1572.09	1638.76		1773.85	1842.34	1911.51	20
21	1311.72	1376.36		1507.08	1573.20	1639.87	1707.12		1843.49	1912.67	21
22	1312.79	1377.44		1508 17 1509 27	1574.31	1640.99 1642.10	1708.25	1776 <b>.1</b> 2	1844.64 1845.78	1913.83	222
23 24	1314.94	1378.52	1443.65 1444.74	1510.37	1575.41 1576.52		1709.37	1778.39	1846.93	1914.90	23 24
25	1316.01		1445.83	1511.47	1577.63				1848.08	1917.30	25
26	1317.08		1446.92	1512.57	1578.73	1645.45		1780.67	1849.23	1918.46	26
27 28	1318.16		1448.01	1513.67 1514.76	1579.84 1580.95			1781.81	1850.37 1851.52	1919.62	27 28
29	1320.31	1385.02	1450.19	1515.86	1582.06	1648.80			1852.67	1921.94	29
30	1321.38	1386.10	1451.28	1516.96	1583.17	1649.92	1717.26	1785.22	1853.82	1923.10	30
31	1322.45			1518.06	1584.27	1651.04			1854.97	1924.26	31
32 33	1323.53 1324.60	1388.26	1453.46	1519.16 1520.26	1585.38 1586.49		1719.52 1720.65	1787.50	1856.12 1857.27	1925.43	32 33
34	1325.68	1390.43	1455.64	1521.36	1587.60	1654.39		1789.77	1858.42	1927.75	34
35	1326.75	+	1450.73	1522.46	1588.71	1655.51			1859.57	1928.91	35
36 37	1327.83	1392.59 1393.68	1457.83	1523.56 1524.66	1589.82 1590.92	1656.63 1657.75		1792.05 1793.19	1860.72 1861.87	1930.07	36 37
38	1329.98			1525.76	1592.03	1658.87			1863.02	1932.40	38
39	1331.06	1395.84	1461.10	1526.86	1593.14	1659.98	1727.42	1795.47	1864.17	1933.56	39
40	1332.13		1462.19	1527.96	1594.25		1728.54	1796.61	1865.32 1866.47	1934.72	40
4I 42	1333.21	,	1464.38	1529.06 1530.16	1595.36 1596.47	1662.22 1663.34	1729.67 1730.80	1797.75	1867.62	1935.88	4I 42
43	1335.37	1400.18	1465.47	1531.26	1597.58	1664.46	1731.93	1800.03	1868.77	1938.21	43
44 45	1330.44			1532.36 1533.46	1598.69 1599.80	1665.58 1666 <b>.70</b>			1869.92 1871.08	1939.37	44 45
45 46		1403.43		1534.56				1803.45	1872.23		45
47	1339.67	1404.52	1469.84	1535.66	1602.02	1668.94	1736.45	1804.59	1873.38	1942.86	47
48		1405.60		1536.77	1603.13	1670.06	1737.58	1805.73	1874.53	1944.03	48
49 50		1406.69 1407.77		1537.87 1538.97	1605.35	1071.18	1730.71	1806.87 1808.01	1875.69 1876.84	1945.19 1946.36	49 50
51		1408.86		1540.07	1606.46			1809.15	1877.99	1947.52	51
52	1345.06	1409.94	1475.30	1541.17	1607.58	1674.54	1742.11	1810.30	1879.14	1948.69	52
53			1476.40		1608.69	1675.66	1743.24	1811.44 1812.58	1880.30 1881.45	1949.85	53
54 55		1413.20		1544.48				1813.72	1882.60	1951.02	54 55
56			1479.68	1545.58	1612.02			1814.86	1883.76	1953.35	56
57	1350.45	1415.37	1480.77	1546.69	1613.13	1680.15	1747.76	1816.01	1884.91	1954.51	57
58 59			1481.87 1482.96					1817.15 1818.29	1886.07 1887.22	1955.68 1956.85	58 59
60		1418.63		1549.99		1683.52				1958.01	60

### The Anti-Gudermannian.

		0.0	2.0	00	A-0	•69	a-0	-00	ac 0	4.5.0	T
gd u	31° 1958'.01	32°	33°	34°	35°	36°	37°	38° 2468.26	39°	40°	gd u
+ 1		2028.38		2171.48	2244.29	2317.99	2392.63		2544.93	2622.69	•
1 2	1959.18	2029.56 2030.74	2100.72 2101.91	2172.69 2173.89	2245.51	2319.22	2393.88 2395.14		2546.22 2547.50	2624.00 2625.30	I 2
3	1961.51			2175.10		2321.70		2472.07	2548.79		3
4	1962.68		-	2176.31	2249.17	2322.93		2473.34	2550.08		4
5	1963.85	2034.28	2105.49	2177.51	2250.39	2324.17	2398.90	2474.61	2551.37	2629.22	5
6	1965.02	2035.46		2178.72	2251.62	2325.41	2400.15	2475.88	2552.66	2630.53	6
7	1966.18			2179.93		2326.65			2553.95	2631.84	7
8	1967.35	2037.82	C ROMER'S TO THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE	2181.14	2254.00 2255.28	2327.89		2478.42	2555.23	2633.14	8
9 IO	1969.69		2110.27 2111.46	2183.55	2256.51	2329.12 2330.36		2479.69 2480.97	2556.52 2557.81	2634.45 2635.76	9 10
II	1970.86	1-	2112.66	≥184.76	2257.73	2331.60	40, 40, 400	2482.04	2559.10	2637.07	II
12	1972.03			2185.97	2258.95	2332.84			2560.39	2638.38	12
13	1973.20			2187.18	2260.18	2334.08	2408.93	2484.78	2561.68	2639.69	13
14	1974 - 37	2044.91	2116.24	2188.39	2261.40	2335.32		2486.06	2562.97		14
15	1975.54		2117.44	2189.60	2262.63	4 7 TO 1 2 1	2411.44		2564.27	2642.31	15
16	1976.71	2047.28		2190.81	2263.85		2412.70		2565.56	2643.62	16
17	1977.88	100 00 00 00 00 00 00	2119.83	2192.02	2265.08	2340.28	2413.96	2489.88 2491.15	2566.85 2568.14	2644.93 2646.24	17
19	1980.22			2194.44	2267.53	2341.52			2569.43	2647.55	19
20	1981.39		2123.42	2195.65	2268.75		2417.73		2570.73	2648.86	20
21	1982.56	2053.19	2124.62	2196.86	2269.98	2344.00	2418.99	2494.97	2572.02	2650.17	21
22	1983.73		2125.81	2198.07		2345.25			2573.31	2651.49	22
23	1984.90		2127.01	2199.29		2346.49			2574.61	2652.80	23
24 25	1986.07 1987.24	2050.75 2057.93	2128.21	2200.50	2273.66 2274.88	2347.73 2348.97	2422.76 2424.02		2575.90 2577.19	2654.11	24 25
26	1988.41	2059.11	2130.61	2202.92	1 1/2	2350.21	2425.28	a Karasa a sala	2578.49	2656.74	26
27	1989.59			2202.92	2277.34	2351.46			2579.78	2658.05	27
28			2133.00	2205.35		2352.70			2581.08		28
29	1991.93		2134.20	2206.56	2279.79	2353.95			2582.37	2660.68	29
30	1993.10		2135.40	2207.78	2281.02	000			2583.67	2662.00	30
31	1994.28		2136.60	12208.99	2282.25	2356.43			2584.97	2663.31	31
32	1995.45		2137.80	2210.20		2357.68 2358.92			2586.26 12587.56	2664.63 2665.94	32
33	1997.80			2212.63	2285.94				2588.86	2667.26	33
35	1998.97			2213.84	2287.17		2436.62		2590.15	2668.58	35
36	2000.14	2070.97	2142.60	2215.06	2288.40	2362.66	2437.80	2514.14	2501.45	2669.89	36
37	2001.32			2216.27	2289.63	2363.90	2439.15	2515.41	2592.75	2671.21	37
38	2002.49	1		2217.49	2290.80	2365.15	2440.41	2516.69	2594.05	2672.53	38
39 40	2003.67 2004.84		2146.20	2218.70 2219.92	2293.32	2366.40 2367.64			2595.35 2596.65	2673.85 2675.16	39
1 1	2006.02			2221.14	2294.55	2368.89		7 7 7	2597.95		1
4I 42	2007.19		2149.81	2222.35		2370.14			2500.24	2677.80	41
43	2008.37			2223.57		2371.38			2600.54	2679.12	43
44	2009.54			2224.79	2298.24				2601.84	2680.44	44
45	2010.72	1	:	2226.00	2299.48	2373.88	2449.26	2525.66	2603.14	2681.76	45
46	2011.90			2227.22	2300.71				2604.45	2683.08	46
47	2013.07		2155.82 2157.02	2228.44	2301.94	2376.38			2605.75 2607.05	2684.40	47
49	2014.25 2015.43		2158.23	Δ	2304.41	2378.87	2453.05 2454.32	2530.79	2608.35	2685.72 2687.04	49
50			2159.43		2305.64	2380.12	2455.58	2532.08	2609.65		50
51	2017.78	2088.80	2160.63	2233.31	2306.88	2381.37	2456.85	2533.36	2610.95		
52	2018.96	2089.99	2161.84	2234.53	2308.11	2382.62	2458.12	2534.65	2612.26	2691.01	52
53	2020.13	2091.19	2103.04	2235.75	2309.34	2383.87	2459.39	2535.93 2537.22	2613.56		
54 55	2021.31	2002.38	2164.25 2165.45	2236.97				2537.22 2538.50			
56			2166.66	1				2539.79		1	1 -
57	2024.85	2005.05	2167.86	2240.63	2314.28	2388.88	2464.46	2541.07	2618.78	2697.63	
58	2026.03	2097.14	2169.07	2241.85	2315.52	2390.13	2465.72	2542.36	2620.08		
59			2170.28	2243.07	2316.75	2391.38	2466.99	2543.64	2621.38		59
60	2028.38	2099.53	2171.48	2244.29	2317.99	2392.03	2408.20	2544.93	2622.69	2701.60	60

gd u	41°	42°	43°	44°	45°	46°	47°	48°	49°	50°	gd u
gu u O'	2701'.60		2863.10	2945.8I	3029.94		3202.71	3291.53	3382.08	3474.47	O'
I	2702.92		2864.46	2947.21		3116.99	3204.18		3383.61	3476.03	I
2	2704.25	2784.40	2865.83	2948.60		3118.43	3205.65	3294.52	3385.13	3477 . 59	2
3	2705.57	2785.75		2949.99		3119.87	3207.12		3386.66	3479.14	3
4 5	2706.90 2708.23	2787.09 2788.44		2951.38 2952.77		3121.31 3122.75	3208.58 3210.05		3388.18 3389.71	3480.70 3482.26	5
6	2709.55	2789.79		2954.16		3124.19	3211.52	3300.51	3391.24	3483.82	6
7	2710.88			2955.56		3125.63	3212.99		3392.77	3485.38	7
8	2712.21	, , , , , , ,		2956.95		3127.08	<b>3</b> 214.46		3394.29	3486.94	8
10	2713.54 2714.86			2958.34 2959.74		3128.52 3129.96			3395.82 3397.35	3488.50 3490.06	9 10
11	2716.19			2959.74		3131.41	3218.87		3398.88	3491.62	II
12	2717.52		2879.53	2962.53		3132.85	3220.34		3400.41	3493.18	12
13	2718.85			2963.92	3048.36	3134.30	3221.82	3311.00	3401.94	3494 . 74	13
14	2720.18 2721.51		2882.28 2883.65	2965.32 2966.71	3049.78 3051.20	3135.75	3223.29	3312.50	3403.47 3405.00	3496.31 3497.87	14 15
16	2722.84		2885.02	2968.11		3137.19 3138.64	3224.76 3226.23	3314.00	3405.54	3499.43	16
17	2724.17		2886.39	2969.50		3140.08		3317.00	3408.07	3501.00	17
18	2725.50			2970.90	3055.46	3141.53	3229.18		3409.60	3502.56	18
19 20	2726.83 2728.17	2807.34 2808.70		2072.30	3050.88	3142.98 3144.42	3230.66 3232.13	7.7	3411.14 3412.67	3504.13 3505.70	19 20
21	2729.50	_		2973.70 29 <b>75.0</b> 9		3145.87	3233.61	3323.02	3414.20	3507.26	21
22	2730.83			2976.49	3061.15	3147.32	3235.08		3415.74	3508.83	22
23	2732.16	1		2977.89		3148.77	3236.56		3417.28	3510.40	23
24 25	2733.50 2734.83	~ ' ~ '	2896.02 2897.40	2979.29 2980.69	3064.00	3150.22 3151.67	3238.04 3239.52	3327 · 54 3329 · 04	3418.81 <b>3</b> 420.35	3511.97 3513.54	24 25
26	2736.16		2898.77	2982.09	3066.85	3153.12	3240.99	1 7 7	3421.89		26
27	2737.50	2818.17	2900.15	2983.49	3068.27	3154.57	3242.47	3332.06	3423.43	3516.68	27
28	2738.83			2984.89	3069.70	3156.03	3243.95	3333.56	3424.96	3518.25	28
29 30	2740.17 2741.50	2820.88 2822.24	2902.91 2904.28	2986.29 2987.70	3071.13 3072.55	3157.48 3158.93	3245.43 3246.91	3335.07 3336.58	3426.50 3428.04	3519.82 3521.39	29 30
31	2742.84			2080.10	3073.98	3160.38	3248.39	_	3429.58	3522.96	31
32	2744.17	2824.95	2907.04	2990.50	3075.41	3161.84	3249.87	3339.60	3431.12	3524.54	32
33	2745.51 2746.84	2826.31 2827.67	2908.42 2909.80	2991.90 2993.31	3076.84 3078.26	3163.29		3341.11 3342.62	3432.66	3526.11 3527.68	33 34
34 35	2748.18			2993.31 2994.71	3079.69	3164.74 3166.20	3252.84 3254.32	3344.I4	3434.20 3435.75	3529.26	35
36	2749.52	2830.39	2912.56	2996.12	3081.12	3167.65	3255.80	3345.65	3437.20	3530.83	36
37	2750.85		2913.94	2997.52	3082.55	3169.11	3257.28	3347.16	3438.83	3532.41	37
38 39	2752.19 2753.53	2833.10 2834.46		2998.93 3000.33	3083.98 3085.41	3170.57 3172.02	3258.77 3260.25	3348.67 3350.19	3440.38 3441.92	3533·99 3535·56	38 39
40	2754.87			3001.74	3086.84		3261.74		3443 47	3537·I4	40
41	2756.21	2837.18		3003.14	3088.27		3263.22		3445.01	3538.72	41
42	2757.55			3004.55	3089.70	3176.40	3264.71		3446.56	3540.30	42
43 44	2758,89 2760.23		2922.24 2923.62	3005.96 3007.36	3091.14	3177.85	3266.19 326 <b>7.</b> 68		3448.10 3449.65	3541.88 3543.45	43 44
45	2761.57			3008.77	3094.00	3180.77	3269.17	3359.28	3451.20	3545.04	45
45	2762.91	~ 10 55		3010.18	3095.43	3182.23		3360.79	3452.75	3546.62	46
47 48		2845.35 2846.71		3011.59	3096.87	3183.69	3272.14	3362.31	3454.29	3548.20 3549.78	47 48
49	2766.93	2848.08	2930.55	3014.41	3099.74	3185.15 3186.61	32/3.03	3365.35	3455.84 3457.39		49
50	2768.27	2849.44	2931.93	3015.82	3101.17	3188.07	3276.61	3366.87	3458.94		50
51	2769.62	2850.81	2933.32	3017.23	3102.60	3189.54	3278.10	3368.39	3460.49		51
52 53		2852.17 2853.53		3018.64	3104.04	3191.00 3192.46	3279.59	3309.91	3462.04 3463.60		52 53
54	2773.64	2854.90	2937.48	3021.46	3100.92	3193.92	3282.57	3372.95	3465.15	3559.28	54
55		2856.26		3022.87	3108.35	3195.39	3284.06	3374 - 47	3466.70	3560.87	55
55	2776.33	2857.63	2940.26	3024.29	3109.79	3196.85	3285.56	3375 99	3468.26		56
57 58		2858.99 2860.36	2941.05 2943.04	3025.70	3111.23	3198.32	3207.05	3377.51	3469.81 3471.36	3564.04 3565.63	57 58
59	2780.37	2861.73	2944.42	3028.52	3114.11	3201.25	3290.04	3380.56	3472.92	3567.22	59
бо	2781.71	2863.10	2945.81	3029.94	3115.55	3202.71	3291.53	3382.08	3474 • 47	3568.81	60
HTP	BONIAN T	ABLES						KORO WWW. DECKMORATE			interest of the
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### The Anti-Gudermannian.

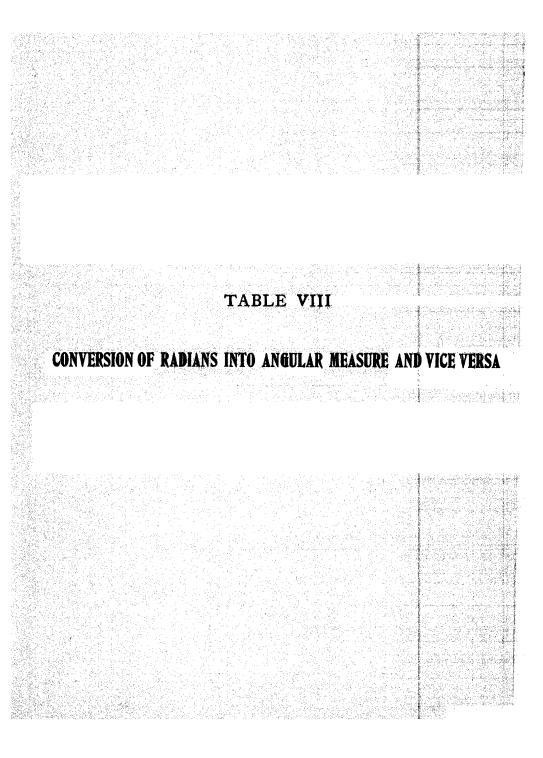
П										THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	PACES THE SECRETARISMS	
	gđ u	51°	52°	53°	54°	55°	56°	57°	58°	59°	603	gdu
	oʻ	3568′.81	3665.19	3763.76	3864.64	3967.97	4073.90	4182.62	4294.30	4409.14	4527.37	0'
	I	3570.40	3666.82	3765.42	3866.34	3969.71			4296.19	4411.08	4529.37	1
	2	3571.99		3767.09	3868 <b>.0</b> 4		4077.48			4413.03	4531.37	2
*	3		3670.07		3869.74	3973.20 3974.95	4079.27			4414.97	4533 - 37	3
	5	3575 17 <b>3576 7</b> 6	3671.70 3673.32		3871.45 3873.15		4081.06		4301.85	4416,92 4418.86	4535 · 38 4537 · 38	4 5
1	6	3578.35			3874.86	1770 000 000 000 000 000 000 000 000 000	4084.65			4420.81	4539 39	6
	7		3676.58		3876.56		4086.44			4422.76	4541.39	
	8	3581.54	3678.21	3777.08	3878.27	3981.94	4088.24	4197.33	4309.42	4424.70	4543.40	7 8
	9		3679.84	3778.74	3879.98		4090.03			4426.65	4545.41	9
1	10		3681.47		3881.68		4091.83	_ 1		4428.60	4547.42	10
-	11	3586.32	3683.10		3883.39 3885.10		4093.62	4202.87	4315.11	4430.56	4549 - 43	II
1	12		3684.73 3686.36		3886.81		4005.42		4318.91	4432.51 4434.46	4551 · 44 4553 · 45	12
- 1	14	3591.11		3787.09	3888.52		4099.02			4436.42	4555 47	14
	15	3592.71			3890.23		4100.82	4210.26		4438.37	4557.48	15
	16	3594.30	3691.26	3790.43	3891.95		4102.62			4440.33	4559.50	16
	17	3595.90			3893.66		4104.42			4442.29	4561.52	17
	18		3694,53 3696.17		3895.37		4108.02			4444.24	4563.53	18
	20	3600.70			3898.80	4001.22	4100.02	4217.50	4332.22	4446.20 4448.16	4565.55 4567.57	19 20
	21	3602.30			3900.52	100	4111.63			4450.12	4569.59	21
1	22	· .			3902.23		4113.44			4452.09	4509.59	22
	23		3702.71		3903.95	4008.26	4115.24	4225.07	4337 • 94	4454.05	4573.64	23
	24	3607.11	3704.35		3905.67		4117.05			4456.01	4575.66	24
	25	3608.71		3805.50	3907.38	atomical Action	4118.85		4341.75	4457.98	4577.69	25
	26		3707.63 3709.27		3909.10 3910.82	4013.54	4120.66			4459.94 4461.91	4579.71	26
1	27 28		3710.91		3912.54		4121.28			4463.88	4581.74 4583.77	27 28
1	29		3712.56		3914.26				4349.40	4465.85	4585.80	29
1	30	3616.74	3714.20		3915.99	4020.60	4127.90	4238.08	4351.31	4467.82	4587.83	30
	31	3618.34	3715.84	3815.58	3917.71	4022.37	4129.72	4239.94	4353.23	4469.79	4589.86	31
1	32	3619.95	3717.48		3919.43		4131.53			4471.76	4591.89	32
- {	33 34	3621.56 3623.17	3719.13 3720.77	3820.63	3921.16 3922.88	4025.90	4133·34 4135·16			4473.73 4475.71	4593.92 4595.96	33 34
	35	3624.78	3722.42		3924.61	4029.44		4247.39		4477.68	4598.00	35
1	36		- 1	3824.00	3926.33	4031.21		4249.26		4479.66	4600.03	36
-	37				3928.06	4032.98	4140.61			4481.63	4602.07	37
	38		3727.36		3929.79		4142.42			4483.61	4604.11	38
-	39	3631.22	3729.01		3931.51		4144.24			4485.59 4487.57	4606.15 460 <b>8.</b> 19	39
	40	3632.83	3730.66		3933.24		4146.06		1.000	超	Burn Straw	40
	4I 42	3034.44 3636.06	3732.30 3733.95		3934·97 3936.70				4372.42 4374.34		4610.23 4612.27	41 42
	43	3637.67	3735.61	3835.81	3938.43				4376.27	4493.51	4614.32	43
	44	3639.28	3737.26	3837.50	3940.16				4378.20	4495.50	4616.36	44
	45	3640.90			3941.90	4047.17		4266.09		4497.48	4618.41	45
	46	3642.51	3740.56		3943.63	4048.94			4382.05		4620.45	46
- 1	47 48	3644.13 3645.75	3742.21 3743.87	3842.58	3945.36 3947.10		4158.82		4383.98	4501.45 4503.44	4622.50 4624.55	47 48
	49	3647.36	3745 - 52	3845.96	<b>3</b> 948.83	4054.28	4162.47	4273.59	4387.84		4626.60	49
	50	3648.98	3747.18	3847.66	3950.57	4050.00	4164.30	4275.47	4389.77	4507.42		50
1	51			3849.35	3952.31	4057.84	4166.13	4277 . 35	4391.70	4509.41	4630.71	51
	52			3851.05		4059.62	4107.96	4279.23	4393.64		4632.76	52
I	53 54			3852.75 3854.44	3955 · 78 3957 · 52		4169.79 4171.62			4513.39	4634.81	53 54
	55	3657.08	3755.46	3856.14	3959.26				4399.44	4517.38	4638.93	55
	56	3658.70	3757.12	3857.84	3961.00	4066.76	4175.28	4286.76	4401.38	4519.38	Martin F. I. I	56
H	57	3660.32	3758.78	3859.54	3962.74	4068.54	4177.12	4288.64	4403.32	4521.37	4643.04	57
	58	3661.95	3760.44	3861.24	3964.48	4070.33	4178.95	4290.53	4405.26	4523.37	4645.10	58
1	59 60	3003.57	3702.10	3862.94	3966.22	4072.12	4180.78	4292.41	4407.20	45 <sup>2</sup> 5·37 45 <sup>2</sup> 7·37	4647.16	
L	UU	2003.19	3/03.70	3004.04	3901.91	40/3.90	14106.02	4-54.30	4403.14	+32/・3/	4049.43	00

ıd u	бı°	62°	63°	64°	65°	66°	67°	68°	69°	70°	g
o'	4649'.23		4904.94	5039.42	5178.81	5323.51	5474.01	5630.82	5794.56	5965.92	-
1	4651.29	4777.11	4907.14	5041.70		5325.97	5476.57	5633.49	5797 - 35		
2		4779.25	4909.35	5043.99		5328.43	5479.13	5636.16	5800.14	5971.77	١.
3		4781.38		5046.27		5330.90			5802.94		
<b>4</b> 5	4659.55	4783.51 4785.65	4913.70	5048.56 5050.85		5333.36 5335.83	5484.26 5486.83		5805.74	5977.63	١.
6			4918.18	5053.14		5338.30		5646.87	5811.34		1
78			4920.39	5055.43	5195.41	5340.77	5491.97	5649.56	5814.15	5986.44	
			4922.60	5057.72		5343 - 24			5816.95		
9	4669.91	4794 · 20	4924.81	5060.01 5062.30	5200.17	5345.71	5497.11	5654.93 5657.61	5819.76 5822.57	5992.33 5995.27	١.
I		4798.49		5064.60	5204.93	ا ـ ـ ا		5660.30	5825.39	5998.22	1
2			4931.46	5066.90		5353 · 14		5663.00		6001.17	
13		4802.77		5069.19		5355.61				6004.13	1
14	4678.21 4680.29		4935.90	5071.49 5073.80	5212.08 5214.47	5358.00	5510.01		5833.84 5836.66	6007.08 6010.04	
16	4682.37	4800.21	4940.34	5076.10		5363.06		5673.78	5839.48	6013.00	
7		4811.36		5078.40		5365.55		5676.48		6015.96	l
8		4813.51		5080.71	5221.64	5368.03	5520.36	5679.19	5845.13		
9	4690.70		4947.02	5083.01 5085.32		5370.52 5373.01	5522.95 5525.55	5681.89	5847.96 5850.79	6021.90	
21		4819.97		5087.63		5375.50			5853.63		
22		4822.13		5089.94		5378.00			5856.47		
23			4955.94	5092.25	5233.63	5380.49	5533 - 34	5692.73	5859.31	6033.79	1
5		4826.44 4828.60	4958.17	5094.57 5096.88	5230.03 5238.43	5382.99	5535.94 5538.55	5695.45 5698.17	5862.15 5864.99	6036.77	1
6			4962.64	5090.20		5387.99		5700.89	5867.84	6042.74	1
7			4964.87	5101.52	5243.24	5390.49	·:	5703.61	5870.69	6045.73	2
8		4835.09	4967.11	5103.84	5245.65	5392.99	5546.37		5873.54	6048.72	1
19 30	4709.51 4711.60		4969.35	5106.16	5248.06	5395.50 5398.01	5548.98 5551.59	5709.06 5711.78	5876.39 5879.24	6051.71 6054.70	1
1	1		4971.59 4973.83	5110.80	5250.47 5252.88	5400.52		and the second	5882.10	6057.70	
2		4843.75		5113.13	5255.30		5556.82		5884.96	6060.70	3
3	4717.89	4845.92	4978.32	5115.45	5257.71	5405.54	5559 • 44	5719.98		6063.71	3
4		4848.09 4850.26	4980.57 4982.82	5117.78	5260.13 5262.55	5408.05	5562.06 5564.68	5722.71	5890.68 5893.55	6066.71 6069.71	3
5	4722.09 4724.19		4985.06	5120.11 5122.44	5264.97		5567.30	5728.19	5896.41	6072.72	3
7			4987.31	5124.77	5267.39		5569.93			6075.73	
8	4728.40	4856.78	4989.56	5127.11	5269.81	5418.12	5572.55	5733.68	5902.15	6078.75	3
9	4730.51	4858.96	1	5129.44	5272.23	5420.64 5423.17		5736.42	5905.03	6081.76 6084.78	3
1		4863.31	4994.07	5131.78	5274.66	5425.69		5741.92	5907.90 5910.78	6087.81	1
2	4736.83		4998.58	5136.45	5279.52	5428.22		5744.67		6090.83	2
3	4738.94	4867.67	5000.84	5138.79	5281.95	5430.75	5585.71	5747 • 43	5916.55	6093.86	4
4 5		4869.86 4872.04		5141.14 5143.48		5433.28 5435.81			5919.44 5922.32	6096.89 6099.92	4
6		4874.22		5145.83				5755.70			
ァー	4747 . 39	4876.41	5009.88	5148.17	5291.69	5440.88	5596.28	5758.46	5928.11	6105.99	4
8	4749.51	4878.60	5012.15	5150.52	5294.13	5443.42	5598.93	5761.23	5931.00	6109.03	4
0	4751.03	4880.79 4882.98	5014.41	5152.87 5155.22	5296.57 5299.01		5601.57	5766.76	5933.90 5936.80	6115.12	4
T		4885.17		5157.57	5301.45		5606.87		5939.70		
2	4757.98	4887.36	5021.21	5159.93	5303.90	5453.59	5609.53	5772.3I	5942.61	6121.21	
3		4889.55		5162.28	5306.34	5456.14	5612.18	5775.08	5945.51		3
5	4702.23	4891.75 4893.94	5028.03	5164.64 5167.00	5308.79 5311.24	5458.08 5461.23	5614.84 5617.50		5948.42 5951.33	6130.38	3
6		4896.14		5169.36		5463.78			5954.24	_	3
7	4768.60	4898.34	5032.58	5171.72	5316.15	5466.34	5622.82	<i>57</i> 86. <i>2</i> 0	5957.16	6136.50	! ا
8		4900.54		5174.08 5176.44		5468.89				6139.56	:
9				5178.81				5794.56	5965.92	6142.63 6145.70	1
											느

						( -					
gd u	71°	72°	73°	74°		<i>7</i> 6°	77°	<u>78°</u>	79°	80°	gdu
0'	6145'.70	6334.84 6338.08	marker rail	6745.74 6749.37	697 <b>0.3</b> 4	7210.07	7467.21 7471.66	7744 57	8045.71 8050.95	8375.20 8380.96	0′
1 2		6341.32		6753.01			7476.11		8056.20	8386.73	I 2
3	6154.93	6344.56	6544.70	6756.64	6981.95	7222.40	7480.57	7759.02	8061.46	8392.52	3
5		6347.81 6351.06		6760.28 6763.93	6989.71		7485.03 7489.50		8066.73 8072.01	8398.31	5
6	6164.18	6354.31	6555.01	6767.58	6993.60	7234.96	7493.98	7773.55	8077.29	8409.92	6
7 8			6558.45	6771.23	6997.49 7001.38		7498.46 7502.95		8082.58 8087.88	8415.74 8421.57	7 8
9	6173.45	6364.08	6565.34	6778.55	7005.28			7788.12	8093.19	8427.42	9
10		6367.35		6782.21	7009.19		7511.94	7793.00	8098.51	8433.27	10
II I2		6370.61		6785.88 6789.55	7013.10 7017.01		7516.45 7520.96	7797.88 7802.76	8103.83 8100.17	8439.13 8445.00	11
13			6579.16	6793.22	7020.93	7264.22	7525.47	7807.66	8114.51	8450.88	13
14		6380.43 6383.71		6800.58	7028.77		7530.00 7534.53	7812.56 7817.46	8119.86 8125.22	8456.77	14 15
16	6195.18	6386.99	6589.57	6804.27	7032.70	7276.83	7539.06	7822.38	8130.58	8468.58	16
18		6390.28 6393.57		6807.96 6811.65	7036.64			7827.30 7832.23		8474.50	17
19		6396.86		6815.35	7040.58 7044.52		7548.15 7552.70			8486.37	19
20		6400.15		6819.05	7048.47	7293.72	7557.26	7842.10	8152.12	8492.32	20
21		6403.44	6606.98	6822.75 6826.46	7052.42 7056.37	7297.96 7302.20	7561.82 7566.39		8157.53 8162.95	8498.28 8504.25	2I 22
23			6613.96	6830.18	7060.33	7306.44	7570.96	7856.97	8168.37	8510.23	23
24 25		6413.35 6416.66	6620.07	6833.89 6837.61	7064.30		7575.54 7580.13	7861.94 7866.91	8173.80 8179.24	8516.22 8522.22	24 25
26		1 . *	6624.47	6841.34	7072.24	1	7584.72		100	8528.23	26
27	6229.59	6423.29	6627.98	6845.07	7076.22	7323.47	7589.32	7876.89	8190.15	8534.26	27
28 20		6429.93	6631.49	6848.80	7080.20 7084.19					8540.29 8546.33	28
30	6239.04	6433.25	6638.53	6856.27	7088.18	7336.30	7603.16	7891.91	8206.57	8552.38	30
3I 32			6642.05 6645.58	6860.02	7092.18 7096.18		7607.78	7896.93 7901.95		8558.45 8564.52	31 32
33	6248.50	6443.24	6649.11	6867.52	7100.18	7349.18	7617.04	7906.98		8570.61	33
34 35			6652.64	6871.27	7104.19 7108.21	7353.48 7357.79	7621.68 7626.33		8228.59 8234.12	8576.70 8582.81	34 35
36		1	6659.72	6878.80	7112.23		7630.99		8239.66	8588.93	36
37	6261.17	6456.61	6663.26	6882.56	7116.25	7366.42	7635.65	7927.19	8245.20	8595.06	37
38 39		6459.95 6463.31		6886.34 6890.11	7120.28 7124.31	7370.74	7640.31 7644.98	7932.26 7937.34	8250.75 8256.31	8601.20	38 39
40	6270.69	6466.66	6673.91	6893.89	7128.35	7379.40	7649.66		8261.88	8613.51	40
4I 42		6470.02	6677.47 6681.03	6897.68 6901.46	7132.39 7136.43			7947 52 7952 62	8267.46 8273.05	8619.68 8625.86	41
43	6280.24	6476.74	6684.50	6905.25	7140.48	7392.43	7663.74	7957.72	8278.65	8632.05	43
44		6480.11 6483.48		6909.05 6912.85	7144.54 7148.60			7962.84 7967.96	8284.25 8289.87	8638.26 8644.47	44
46	1	6486.86		6916.65	7152.67			7973.09	8295.49	8650.70	46
47	6293.01	6490.23	6698.89 6702.47	6920.46	7156.74	7409.88	7682.59	7978.23	8301.12	8656.94	47
49	6299.42	6497.00	6706.06	6928.09	7164.89	7418.64	7692.05	7988.52	8306.77 8312.42	8669.45	49
50	6302.62	6500.38	6709.65	6931.91	7168.97	7423.03	7696.79	7993.68	8318.08	8675.72	50
51 52				6935.73 6939.56	7173.00	7427.42	7701.54	7998.85 8004.03	8323.75	8682.00 8688.29	51 52
53	6312.26	6510.56	6720.44	6943.40	7181.25	7436.22	7711.06	8009.21	8335.12	8694.60	53
54	6318.70	0513.90	6724.04 6727.65	6947.23	7185.35	7440.63	7715.83	8014.40 8019.60	8340.82	8700.92 8707.25	54 55
56	6321.92	6520.77	6731.26	6054.92	7193.57	7449.47	7725.38	8024.81	8352.24	8713.59	56
57 58	6325.14	6524.18	6734.88	6958.77 6962.62	7197.69	17453.80	7730.17	8030.02	8357.06	8710.04	57
59	0331.01	0531.01	0742.12	0966.48	7205.94	7462.76	7730.76	8040.47	8360.44	8732.68	50
60	0334.84	0534.42	0745.74	6970.34	7210.07	7467.21	7744 • 57	8045.71	8375.20	8739.06	60

## The Anti-Gudermaunian.

gđ u	81°	82°	83°	84°	85°	86°	87°	88°	89°	gdu
		9145.46			10764.62	11532.52		13916.43	16299.56	0'
1	8745.46		9614.03	10146.4¢	10776.11	11546.88	12541.27		16357.34	1
2	8751.87	9159.86	9622.27	10156.07	10787.65	11561.31	12560.54		16416.11	2
1	8758.29	, ,		10165.70				14003.48		3
4	8764.73 8771.17			10175.37	10810.82		12599.40		16536.76	4 5
5					10834.16		12619.00		16598.69	6
6		9188.84 9196.13		10194.77 10204.51	10845.89	11634.36	12658.53	14123.00	16726.04	7
8	8790.58	9203.42		10214.28		11649.16	12678.46	14153.66	16791.53	8
9		9210.74	9680.47	10224.08	10869.46	11664.02	12698.52	14184.49	16858.29	9
10	8803.58	9218.07		10233.90	10881.31		12718.69		16926.36	10
II		9225.41	9697.28	10243.75	10893.20	11693.93	12738.98		16995.81	II
12	8816.63 8823.17			10253.64	10005.13			14278.70 14310.68		12
	8829.73			10273.48	10929.11	11739.30	12800.58	14342.97	17213.03	14
15		9254.95	9731.14	10283.45	10941.17	11754.56	12821.36	14375.56	17288.57	15
16	8842.88	9262.37	9739.66	10293.45	10953.26		12842.26		17365.83	16
17	8849.47			10303.47	10965.40	11785.27	12803.30	14441.68		17
18	8856.07 8862.69	9277.27		10313.53 10323.61	10977.59	11800.73	12884.46		17525.77	18
19 20	8869.32			10323.01	11002.08		12927.18	14543.31	17693.49	20
21	8875.96			10343.86	ł		12948.74	i	17780.53	21
22		9307.25	9791.21	10354.03	11026.75			14612.78		22
23	8889.29			10364.24				14648.04		23
24		9322.34		10374.47	11051.60		13014.25		18055.70	24
25	l	9329.91		10384.73	11064.09		13036.36	14756.05	18152.55	25
26 27	8909.37 8916.09	9337 · 49 9345 · 10	9826.02	10395.03				14792.83		26 27
28	8922.82			10415.71				14830.00		28
29	8929.57	9360.35	9852.35	10426.09	11114.52		13126.27			29
30	8936.33	9368.00	9861.17	10436.51*	11127.24	1 .	13149.12	14905.56	18682.49	30
31		9375.67	9870.02	10446.96		12008.31		14943.98		31
32	8949.88 8956.68	9383.36	9878.88	10457.44 10467.95			13195.28	15022.12	18919.67	32
33		9398.79	9896.69		11178.60			15061.87		34
35		9406.53	9905.63	10489.08	11191.56	12074.79	13265.70	15102.08	19309.27	35
36	8977.16	9414.28	9914.59	10499.69	11204.57		13289.50		19449.61	36
37		9422.05	9923.57	10510.33				15183.94		37 38
38	8990.87	9429.84	9932.57 9941.60	10521.01	11230.74		13337.60	15225.62 15267.80		39
40	9004.65	9445.48	9950.66	10542.45	11257.11			15310.51		40
41	9011.55	9453.32	9959.73	10553.23	11270.37		13411.02	15353.76	1	41
42	9018.47	9461.18	9968.83	10564.04	11283.68	12194.29	13435.85	15397.56	20438.59	42
43		9469.06	9977.96	1	11297.04			15441.92		43
44 45		9476.96	9987.11	10585.70	11310.40			15486.86		44
45		9492.81	10005.48	10607.62		1 .	13537.00	15578.55	1	46
47				10618.60				15625.32		47
48	9060.29	9508.73	10023.95	10629.61	11364.65	12300.13	13588.71	15672.75	21832.48	48
49	9067.31	9516.71	10033.22	10640.67	11378.33				22131.60	49
					11392.06				22459.26 22821.46	
51	9081.39	9532.74	10051.84	10002.87	11405.85		13604.52	15860.25	23226.39	51 52
52	0005.52	0548.85	10070.56	10685.22	11433.60	12390.89	13721.48	15920.19	23685.42	53
54	9102.61	9556.93	10079.96	10696.46	11447.56	12409.33	13748.67	15971.89	24215.35	54
55	9109.72	9565.03	10089.38	10707.72	11461.58	12427.87			24842.12	
56	9116.84	9573.15	10098.83	10719.03	11475.65		13803.68	16077.68	25609.23 26598.21	
57	9123.97	9581.29	10108.30	10730.37	11489.78		13850.60	16186.82	27992.10	57 58
58 59	0138.28	9509.45	10127.33	10753.17	11518.21				30374.96	
60	9145.46	9605.82	10136.89	10764.62	11532.52			16299.56		60
							nd differen		PERSONAL PROPERTY AND AREA	-



### Conversion of Angular Measure into Radians.

n	Radians for n degrees	Radians for n minutes	Radians for n seconds	n	Radians for n degrees
I	0.01745 32925 2	0.00029 08882 I	0.00000 48481 4		1.06465 08437 2
2	.03490 65850 4	.00058 17764 2	.00000 96962 7	61 62	.08210 41362 4
3	.05235 98775 6	.00087 26646 3	.00001 45444 1	63	.09955 74287 6
4	.06981 31700 8	.00116 35528 3	.00001 93925 5	64	11701 07212 8
5 6	0.08726 64626 <b>0</b>	0.00145 44410 4	0.00002 42406 8	65	1.13446 40138 0
	.10471 97551 2	.00174 53292 5	.00002 90888 2	66	.15191 73063 2
7 8	.12217 30476 4	.00203 62174 6	.00003 39369 6	67	.16937 05988 4
■1 I	.13962 63401 6 .15707 96326 8	.00232 71056 7	.00003 87850 9	68	.18682 38913 6
9			.00004 36332 3	69	.20427 71838 8
II	0.17453 29252 0 .19198 62177 2	0.00290 88820 9	0.00004 84813 7 .00005 33295 0	70 71	1.22173 04764 0
12	.20943 95102 4	.00349 06585 0	.00005 81776 4	72	.25663 70614 4
13	.22689 28027 6	.00378 15467 1	.00006 30257 8	73	.27409 03539 6
14	.24434 60952 8	.00407 24349 2	.00006 78739 2	74	.29154 36464 8
15	0.26179 93878 0	0.00436 33231 3	0.00007 27220 5	75	1.30899 69390 0
16	.27925 26803 2	.00465 42113 4	.00007 75701 9	76	.32645 02315 2
17	.29670 59728 4	.00494 50995 5	.00008 24183 3	77	.34390 35240 4
10	.31415 92653 6 .33161 25578 8	.00523 59877 6 .00552 68759 6	.00008 72664 6	78 79	.36135 68165 6
			0.00009 69627 4	80	1.39626 34016 o
20 21	0.34906 58504 0 .36651 914 <i>2</i> 9 2	0.00581 77641 7 .00610 86523 8	.00010 18108 7	81	.41371 66941 2
22	.38397 24354 4	.00639 95405 9	.00010 66590 1	82	.43116 99866 4
23	.40142 57279 6	.00669 04288 0	.00011 15071 5	83	.44862 32791 6
24	.41887 90204 8	.00698 13170 1	.00011 63552 8	84	.46607 65716 8
25	0.43633 23130 0	0.00727 22052 2	0.00012 12034 2	85	1.48352 98642 0
26	.45378 56055 2	.00756 30934 3	.00012 60515 6	86	50098 31567 2
27 28	.47123 88980 4	.00785 39816 3	.00013 08996 9	87 88	.51843 64492 4 .53588 97417 6
20	.48869 21905 6 .50614 54830 8	.00843 57580 5	.00013 37470 3	89	55334 30342 7
30	0.52359 87756 0	0.00872 66462 6	0.00014 54441 0	90	1.57079 63267 9
31	.54105 20681 2	.00901 75344 7	.00015 02922 4	91	.58824 96193 1
32	.55850 53606 4	.00930 84226 8	.00015 51403 8	92	.60570 29118 3
33	.57595 86531 6	.00959 93108 9	.00015 99885 1	93	.62315 62043 5
34	.59341 19456 8	.00989 01990 9	.00016 48366 5	94	.64060 94968 7
35	0.61086 52382 0	0.01018 10873 0	0.00016 96847 9	95	1.65806 27893 9
36	.62831 85307 2	.01047 19755 1	.00017 45329 3	96 97	.67551 60819 1 .69296 93744 3
37 38	.64577 18232 4 .66322 51157 6	.01076 28637 2 .01105 37519 3	.00017 93010 0	98	.71042 26669 5
39	.68067 84082 8	.01134 46401 4	.00018 90773 4	99	.72787 59594 7
40	0.69813 17008 o	0.01163 55283 5	0.00019 39254 7	100	1.74532 92519 9
41	.71558 49933 2	.01192 64165 6	.00019 87736 1	110	.91986 21771 9
42	.73303 82858 4	.01221 73047 6	.00020 36217 5	120	2.09439 51023 9
43	.75049 15783 6	.01250 81929 7		130	.26892 80275 9
44	.76794 48708 8		00021 33180 2	140	44346 09527 9
45 46	0.78539 81634 0	0.01308 99693 9 .01338 08576 0	0.00021 81661 6	150	2.61799 38779 9
47	.80285 14559 <i>2</i> .82030 47484 4	.01336 06570 0	.00022 30142 9	160 170	79252 68031 9 96705 97283 9
48	.83775 80409 6	.01396 26340 2	.00023 27105 7	180	3.14159 26535 9
49	.85521 13334 8	.01425 35222 2	.00023 75587 0	190	.31612 55787 9
50	0.87266 46260 0	0.01454 44104 3	0.00024 24068 4	200	3.49065 85039 9
51	.89011 79185 2	.01483 52986 4	.00024 72549 8	210	.66519 14291 9
52	.90757 12110 4	.01512 61868 5	.00025 21031 1	220	83972 43543 9
53 54	.92502 45035 6 .94247 77960 8	.01541 70750 6 .01570 79632 7	.00025 69512 5 .00026 17993 9	230 240	4.01425 72795 9 .18879 02047 9
	0.95993 10886 o	0.01599 88514 8	0.00026 66475 2	250	4.36332 31299 9
55 56	.95993 10880 0	.01628 97396 9	.00020 004/5 2	250	.53785 60551 9
57	.99483 76736 4	.01658 06278 9	.00027 63438 o	270	71238 89803 8
58	1.01229 09661 6	.01687 15161 0	.00028 11919 4	300	5.23598 77559 8
59	.02974 42586 8	.01716 24043 1	.00028 60400 7	330	.75958 65315 8
60	1.04719 75512 0	0.01745 32925 2	0.00029 08882 1	360	6.28318 53071 8

#### Conversion of Radians into Angular Measure.

Radians	Angle	Radians	Angle
0.1	05° 43′ 46′.48062 47	0.006	o° 20 37.58883 75
0.2	11 27 32.96124 94	.007	24 03.85364 37
0.3	17 11 19.44187 41	.008	27 30.11845 00
0.4	22 55 05.92249 88	.009	30 56.38325 62
0.5	28 38 52.40312 35	0.0100	0 34 22,64806 25
0.6	34 22 38.88374 83	.0001	00 20.62648 06
0.7	40 06 25.36437 30	.0002	00 41.25296 12
0.8	45 50 11.84499 77	.0003	01 01.87944 19
0.9	51 33 58.32562 24	.0004	01 22.50592 25
1.00	57 17 44.80624 71	0.0005	0 01 43.13240 31
10.0	00 34 22.64806 25	.0006	02 03.75888 37
0.02	01 08 45.29612 49	.0007	02 24.38536 44
0.03	01 43 07 94418 74	.0008	02 45.01184 50
0.04	02 17 30.59224 99	,0009	03 05.63832 56
0.05	02 51 53.24031 24	0.00100	0 03 26.26480 625
0.06	03 26 15.88837 48	.00001	00 02.06264 806
0.07	04 00 38.53643 73	.00002	00 04.12529 612
0.08	04 35 01.18449 98	.00003	00 06.18794 419
0.09	05 09 23.83256 22	.00004	00 08.25059 225
0.100	05 43 46.48062 47	0.00005	0 00 10.31324 031
0.001	00 03 26.26480 62	.00006	00 12.37588 837
0.002	00 06 52.52961 25	.00007	00 14.43853 644
0.003	00 10 18.79441 87	80000	00 16.50118 450
0.004	00 13 45.05922 50	.00009	00 18.56383 256
0.005	00 17 11.32403 12	0.00010	0 00 20.62648 062
I			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon

SMITHSONIAN TABLES

#### Numerical Constants.

# SMITHSONIAN MATHEMATICAL TABLES

# HYPERBOLIC FUNCTIONS

PREPARED BY

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